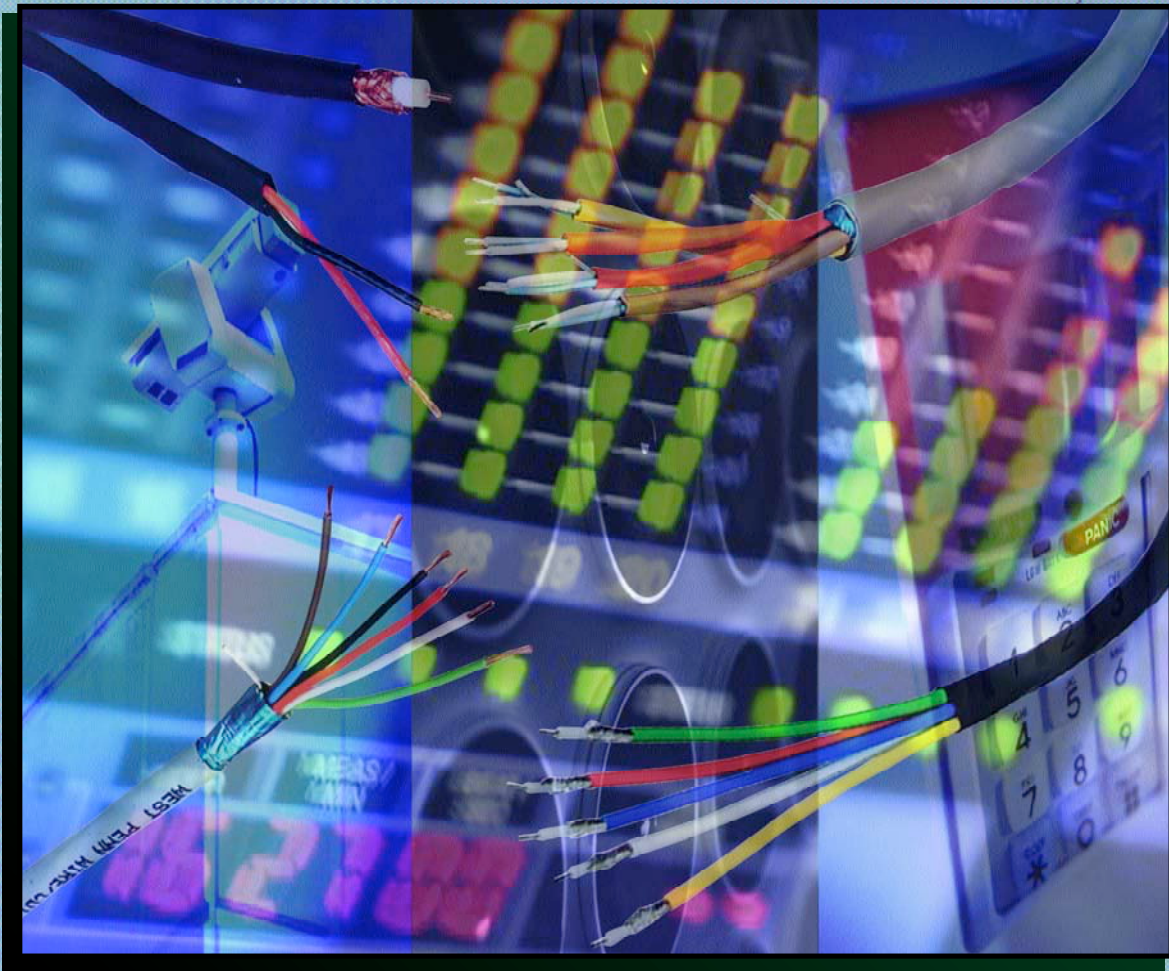


WEST PENN WIRE












WPW



Security Cables
Sound Cables
Residential Cables
Broadcast Cables
Networking Cables
Fiber Optic Cables
Cable Assemblies
Cable Accessories
Racks and Cabinets

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New Products:

Aquaseal® Cable.....pages 37-46

Aquaseal® cable has a construction technique that provides a moisture blocking barrier to protect the conductor, insulation, and shield from moisture. You will find this West Penn Wire EXCLUSIVE CONSTRUCTION used on a multitude of products throughout the catalog.

NEW PRODUCTS ARE: AQC422, AQC424, AQC429- Page 41

Broadcast Cable.....pages 79-104

This catalog offers many new products for the demanding professional for audio, broadcast, and video applications.

- New Low Skew UTP Cables M58813 CMR, and M58814 CMP - Page 89
- A new Plenum Broadcast Miniature Audio Cables: D25454 - Page104
- A new Dual Channel Line Level 210454 - Page 101
- A new Miniature RGB Non-Plenum & Plenum : 253CRGB, 5CRGB, 255CRGB, 6CRGB2P, 6CRGB4P, 256CRGB2P - Pages 82-83

Control Cablespage 1-36

- Burglar Alarm: S221 and S241. Page 2 & Page 4
- New Twisted Individually Shielded Pair Cables: Page 22 & 23
- New Plenum Rated Control Cables Pages 28-36

Coaxial Cable.....page 61-78

- Our new Pan, Tilt and Zoom Composite Cables are a more installer friendly cable. Page 76,77

Coaxial Connectors, Tools and Patch Cable/ ACCESSORIES.....pages 145-168

- West Penn Wire's complete Accessories- Cable Assemblies, Coaxial Connectors, Install Kits, Fiber Optic Accessories, AV Wall Plates.
- RACKS AND CABINETS SECTION- Show Standard, Deep, Slim Cabinets- Distribution Racks

Data Grade Cable.....page 105-110

- Our new Plenum RS-485 Cables (D254851, D254852). Page 110

Fiber Optic Cable.....page 119-132

- Our new Indoor/Outdoor 900um Fiber Optic Cables- Page 127

Fire Alarm Cable.....page 47-60

- Our new Circuit Integrity Cables - Page 57-60

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- Our New Category 5E Indoor/Outdoor Cables: M58762- Page 116

Racks and Cabinets.....pages 174-178

- New Stand-Alone Gangable Rack/Enclosures

Residential Cable.....page 133-138

- LSHN6262F - and LSHN5262F
 - Lickity Split Design: 2- Category 6 + 2- RG6/U Quad-Shield + 2 Fiber Optic Cables- Page 136
 - Lickity Split Design: 2- Category 5E + 2- RG6/U Quad-Shield + 2 Fiber Optic Cables- Page136

Special Applications Cable.....page 139-144

- PTZ Cables- Page 142-143
- Lickity Split- AV Cables - Page 144
- Burglar Alarm Security Cables - Page 141

West Penn Wire: OUR BRAND

West Penn Wire is one of the most trusted and recognizable names in the wire and cable industry. For over 35 years, we have strived to meet our customer's expectations by exceeding them not only in the quality of our products but in our legendary customer and technical service as well.

West Penn Wire is the leading brand manufacturer and supplier of cables, connectors, cable assemblies, fiber Optic equipment, and much more. We are constantly innovating and updating technologies so that our customers receive the most state-of-the-art products available. **Signals...Delivered**

Our Master Catalog is an easily accessible compilation of our wide range of products as well as applications of these products. It represents our commitment to our customers by giving the most up to date resources available in the cable industry.

West Penn Wire offers an easily navigable website (www.westpenn-wpw.com) as well. The website has a comprehensive cable finder so that customers and consultants can easily find what they need. The website also offers technical cable specifications, technical product bulletins, and an on-line quoting system..

West Penn Wire: ENVIRONMENTAL COMPLIANCE

With environmental concerns becoming a growing issue, West Penn Wire strives to comply with this by being environmentally friendly. Our products are being transformed to meet all Environmental Compliant Regulations. Over 95% of our Products meet the requirements of the Restriction on Hazardous Substances (RoHS), and other environmental compliance regulations. For further details on our environmental policies, please contact our Engineering Department.

West Penn Wire: NATIONAL ELECTRICAL CODE

The National Electrical Code is a set of guidelines written to govern the installation of wiring and equipment in commercial buildings and residential areas. These guidelines are revised every three years to ensure the safety of human beings as well as property against fires and electrical explosion associated with electrical installations.

Although the National Electrical Code contains the suggested regulations governing the proper installation of wire and cable, each state, city, county and municipality has the option to adopt part of the code, all of the code or write one of its own. The local inspectors have the authority to approve or disallow any installation based on the National Electrical Code or on the local code. The NEC is a good reference when questions arise about proper techniques for particular installations, but local authorities should be contacted for verification.

Nearly all the cable in this catalog has met or exceeded the latest revisions to the National Electrical Code. Should questions arise concerning our products meeting local regulations, please contact the WEST PENN WIRE Engineering Department.

NEC Type

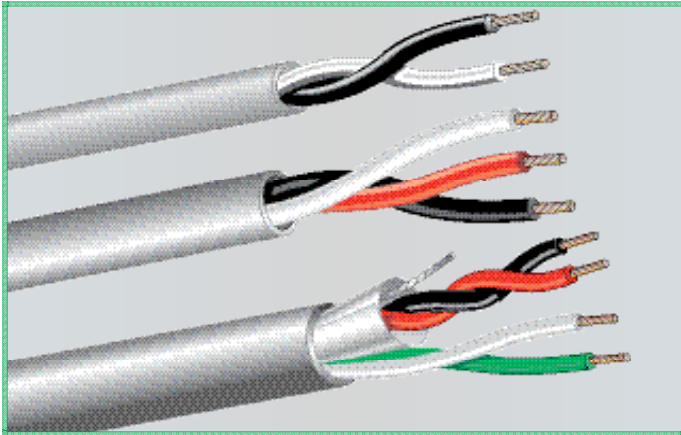
CM, CMR, CMP
TC
PLTC
FPL, FPLR, FPLP
NPLE, NPLFP
CATV, CATVX, CATVP
CL2, CL2R, CL3, CL2P
OFN, OFNR, OFNP
OFC, OFCR, OFCP

Description

Communication Cables
Tray Cables
Power-Limited Tray Cables
Power-Limited Fire Alarm Cables
Non Power-Limited Fire Alarm Cables
Community Antenna Television Cables
Power-limited Cables (Classes)
Optical Fibers Non-Conductive
Optical Fibers Conductive

Communication & Control Cables

WEST PENN WIRE



West Penn Wire manufactures one of the largest, economical and reliable Communications and Control Cables in the Market. **West Penn Wire** Low Voltage Circuitry cables are typically used for control purposes such as remote signalling, as well as communication applications. Typical systems could include sound audio, security, and intercom.

These cables are designed and manufactured to meet NEC Article 725 and 800 requirements. All NEC rated cables are verified by an Independent Testing Laboratory.

For more detailed information on our Communication cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at: **sales@westpenn-wpw.com**. Information can also be found on our website: **www.westpenn-wpw.com**

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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Two Conductor / Unshielded

Description:

- ASTM Bare Copper • PVC insulation • Short overall twist lengths • Overall PVC jacket

Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
220	2	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .015	.118	CMR	--	Gray
221	2	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.127	CMR	--	GY, BN, WH
222	2	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .015	.141	CMR	--	GY, BN, WH
224	2	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.155	CMR	--	GY, BK, BN, WH, BL, YE
225	2	16 AWG (19x29) 4.2 Ω/Mft	PVC .010	None	PVC .015	.189	CMR	--	GY, BN, WH, BK, YE
226	2	14 AWG (19x27) 2.7 Ω/Mft	PVC .014	None	PVC .015	.234	CL2R*	--	GY, BN, WH, BK, YE
227	2	12 AWG (19x25) 1.7 Ω/Mft	PVC .014	None	PVC .015	.269	CL2R*	--	GY, BK, YE

Burglar Wire

Rating:

- NEC Type CM

S221	2	22 AWG (7x30) 17 Ω/Mft	Poly-propylene .008	None	PVC .015	.102	CM	--	GY, WH
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Special Notes:

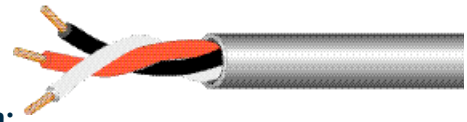
- Selected Plenum Versions see pages 28
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 40 & 43
- Select cables are available in our Easybox®
- *- CL2R Meets 150V requirements for Low Voltage Circuits

Color Code			
Catalog Number	220, 221,222, 224,225	226, 227	S221
Primary Color Code	1. Black, 2. Red	1. Black, 2. White	1. Black, 2. Red
Jacket: GY-Gray, BK-Black, BN-Brown, WH-White, RD-Red, YE- Yellow, BL-Blue			

Communication & Control Cables

Communication & Control Cable Three Conductor / Unshielded

WEST PENN WIRE



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
230	3	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .015	.141	CMR	--	Gray
231	3	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.141	CMR	--	Gray
232	3	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .015	.158	CMR	--	Gray
234	3	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.174	CMR	--	Gray
235	3	16 AWG (19x29) 4.2 Ω/Mft	PVC .010	None	PVC .015	.202	CMR	--	Gray
236	3	14 AWG (19x27) 2.7 Ω/Mft	PVC .014	None	PVC .015	.245	CL2R*	--	Gray
238	3	12 AWG (19x25) 1.7 Ω/Mft	PVC .014	None	PVC .015	.307	CL2R*	--	Gray

Color Code	
Catalog Number	230, 231, 232, 234, 235, 236, 238
Primary Color Code	1. Black, 2. Red, 3. White
	JACKET: Gray

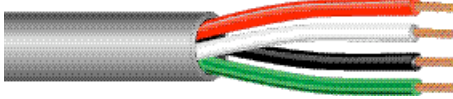
Special Notes:

- Selected Plenum Versions see pages 30
- Select cables are available in our Easybox®
- *- CL2R Meets 150V requirements for Low Voltage Circuits

Communication & Control Cables

WEST PENN WIRE

Communication & Control Cable Four Conductor / Unshielded



Description:

- ASTM Bare Copper • PVC insulation • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
240	4	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .015	.142	CMR	--	Gray
241	4	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.153	CMR	--	Gray
242	4	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .015	.173	CMR	--	Gray
244	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.191	CMR	--	Gray
245	4	16 AWG (19x29) 4.2 Ω/Mft	PVC .010	None	PVC .015	.222	CMR	--	Gray
246	4	14 AWG (19x27) 2.7 Ω/Mft	PVC .014	None	PVC .015	.292	CL2R*	--	Gray
248	4	12 AWG (19x25) 1.7 Ω/Mft	PVC .014	None	PVC .015	.338	CL2R*	--	Gray

Burglar Wire

Rating:

- NEC Type CM

S241	4	22 AWG (7x30) 17 Ω/Mft	Poly-propylene .008	None	PVC .015"	.129	CM	--	White, Gray
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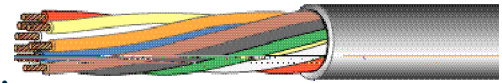
Special Notes:

- Selected Plenum Versions see pages 30 & 31
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 40 & 43.
- Select cables are available in our Easybox®
- *- CL2R Meets 150V requirements for Low Voltage Circuits

Color Code	
All Cables	1. Black, 2. Red, 3. White, 4. Green JACKET: Gray
S241	1. Black, 2. Red, 3. White, 4. Green JACKET: White, Gray

Communication & Control Cables

Communication & Control Cable Multiple Conductor 22 AWG / Unshielded featuring the PERFECT STRIPE®



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Description:

- ASTM Bare Copper • PVC insulation • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
855	5	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.168	CMR	--	Gray
270	6	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.183	CMR	--	Gray
271	8	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.198	CMR	--	Gray
272	10	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.243	CMR	--	Gray
273	12	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.251	CMR	--	Gray
274	15	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .020	.278	CMR	--	Gray
275	20	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.308	CMR	--	Gray
276	25	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.343	CMR	--	Gray
277	30	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .020	.364	CMR	--	Gray

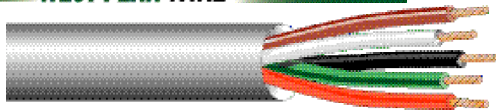
Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord under jacket

Color Code- See page 6

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable 20 AWG Multiple Conductor / Unshielded

Description:

- ASTM Bare Copper • PVC insulation • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
262	5	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .015	.189	CMR	--	Gray
263	7	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .015	.207	CMR	--	Gray
264	9	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .015	.253	CMR	--	Gray
265	12	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	None	PVC .020	.284	CMR	--	Gray

Color Code		
Colors	Colors	Colors
1. Black	11. Pink	21. White/ Gray
2. Red	12. Tan	22. Black/ Red
3. White	13. White/Black*	23. Black/ Green
4. Green	14.. White/ Red	24. Black/ Yellow
5. Brown	15. White/ Green	25. Black/ Blue
6. Blue	16. White/ Orange	26. Black/ Brown
7. Orange	17. White/ Blue	27. Black/ Orange
8. Yellow	18. White/ Brown	28. Black/ Gray
9. Purple	19. White/ Yellow	29. Black/ Purple
10. Gray	20. White/ Purple	30. Red/ Green

JACKET: Gray

*Conductors 13 and above have PERFECT STRIPE®

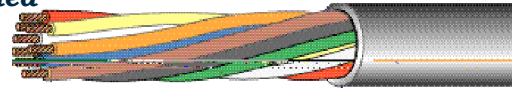
Special Notes:

- Selected cables are available in our Easybox®
- Orange ripcord under jacket

Communication & Control Cables

WEST PENN WIRE

Communication & Control Cable Multiple Conductor 18 & 16 AWG / Unshielded featuring the PERFECT STRIPE®



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
280	5	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.210	CMR	--	Gray
281	7	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.240	CMR	--	Gray
282	9	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.280	CMR	--	Gray
283	12	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .020	.316	CMR	--	Gray
284	15	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .020	.351	CMR	--	Gray
285	20	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .020	.391	CMR	--	Gray
663	7	16 AWG (19x29) 4.2 Ω/Mft	PVC .010	None	PVC .020	.278	CMR	--	Gray

Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord under jacket

Color Code		
Colors	Colors	Colors
1. Black	8. Yellow	15. White/Green
2. Red	9. Purple	16. White/Orange
3. White	10. Gray	17. White/Blue
4. Green	11. Pink	18. White/Brown
5. Brown	12. Tan	19. White/Yellow
6. Blue	13. White/Black*	20. White/Purple
7. Orange	14.. White/ Red	
JACKET: Gray		
*Conductors 13 and above have PERFECT STRIPE®		

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable 22 AWG Multiple Conductor / Overall Shielded featuring the **PERFECT STRIPE**®

Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with 24 AWG Strd. TC drain wire • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation	Shielding	Jacket Type	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Type & Thickness Inches	& % Coverage	& Thickness Inches				
3241	4	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.157	CMR	55 pf/ft* 99 pf/ft**	Gray
3855	5	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.172	CMR	55 pf/ft* 99 pf/ft**	Gray
3270	6	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.187	CMR	55 pf/ft* 99 pf/ft**	Gray
3271	8	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.212	CMR	55 pf/ft* 99 pf/ft**	Gray
3272	10	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.247	CMR	55 pf/ft* 99 pf/ft**	Gray
3273	12	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.255	CMR	55 pf/ft* 99 pf/ft**	Gray
3274	15	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.282	CMR	55 pf/ft* 99 pf/ft**	Gray
3275	20	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.312	CMR	55 pf/ft* 99 pf/ft**	Gray

Color Code- See pg. 9

* Capacitance between conductors.

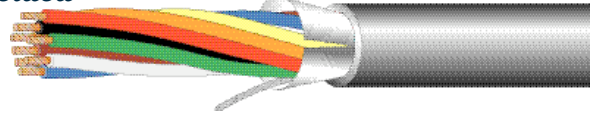
** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Selected Plenum Versions see pages 33
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 5 or more conductors

Communication & Control Cables

Communication & Control Cable Multiple Conductor 20 AWG / Overall Shielded



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with 22 AWG Strd. TC drain wire • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation	Shielding	Jacket Type	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Type & thickness Inches	& % Coverage	& Thickness Inches				
3011	4	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.176	CMR	60 pf/ft* 108 pf/ft**	Gray
3262	5	20AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.193	CMR	60 pf/ft* 108 pf/ft**	Gray
3263	7	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.211	CMR	60 pf/ft* 108 pf/ft**	Gray
3264	9	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.256	CMR	60 pf/ft* 108 pf/ft**	Gray
3265	12	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.288	CMR	60 pf/ft* 108 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

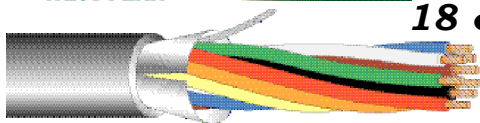
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 5 or more conductors

Color Code		
Colors	Colors	Colors
1. Black	8. Yellow	15. White/Green
2. Red	9. Purple	16. White/Orange
3. White	10. Gray	17. White/Blue
4. Green	11. Pink	18. White/Brown
5. Brown	12. Tan	19. White/Yellow
6. Blue	13. White/Black*	20. White/Purple
7. Orange	14.. White/ Red	
JACKET: Gray		
*Conductors 13 and above have PERFECT STRIPE®		

Communication & Control Cables

WEST PENN WIRE

Communication & Control Cable 18 & 16 AWG Multiple Conductor / Overall Shielded



Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with 22 AWG Strd. TC drain wire • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches				
3244	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.195	CMR	68 pf/ft* 122 pf/ft**	Gray
3280	5	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.214	CMR	68 pf/ft* 122 pf/ft**	Gray
3021	6	18 AWG (7x26) 6.6 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.243	CMR	68 pf/ft* 122 pf/ft**	Gray
3281	7	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.245	CMR	68 pf/ft* 122 pf/ft**	Gray
3282	9	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.284	CMR	68 pf/ft* 122 pf/ft**	Gray
3283	12	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.319	CMR	68 pf/ft* 122 pf/ft**	Gray
3245	4	16 AWG (19x29) 4.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.235	CMR	80 pf/ft* 144 pf/ft**	Gray

Color Code- See pg. 9

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

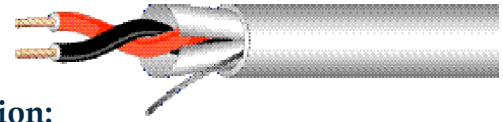
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 5 or more conductors
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 39

Communication & Control Cables

Communication & Control Cable

Twisted Pair Overall Shielded/ Two Conductor

WEST PENN WIRE



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Twisted pair construction • Overall PVC jacket

Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
290	2	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100% 22 Solid	PVC .015	.123	CMR	54 pf/ft* 97 pf/ft**	Gray
291	2	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100% 24 Strd.	PVC .015	.131	CMR	55 pf/ft* 99 pf/ft**	GY, BK, GN, BN OR, RD, YE VT, BL
292	2	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.142	CMR	60 pf/ft* 108 pf/ft**	GY, BL
293	2	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.159	CMR	68 pf/ft* 122 pf/ft**	GY, BL
294	2	16 AWG (19x29) 4.1 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.182	CMR	80 pf/ft* 144 pf/ft**	Gray
295	2	14 AWG (19x27) 2.7 Ω/Mft	PVC .014	Al. Foil 100% 22 Strd.	PVC .015	.238	CL2R*	76 pf/ft* 137 pf/ft**	Gray
296	2	12 AWG (19x25) 1.7 Ω/Mft	PVC .014	Al. Foil 100% 22 Strd.	PVC .015	.272	CL2R*	88 pf/ft* 158 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Color Code		
Catalog Number	290, 291, 292, 293, 294	295, 296
Primary Color Code	1. Black, 2. Red	1. Black, 2. White
	Jacket: GY-Gray, BK-Black, BN-Brown, WH-White, RD-Red, YE- Yellow, BL-Blue, VT-Violet, OR- Orange	

Special Notes:

- Selected Plenum Versions see pages 32
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 39 & 44.
- Select cables are available in our Easybox®
- *- CL2R Meets 150V requirements for Low Voltage Circuits

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Three Conductor / Overall Shield

Description:

- ASTM Bare Copper • PVC insulation • Overall shield
- 100% coverage of aluminum polyester foil with TC drain wire • Cabled construction • Overall PVC jacket

Rating:

- NEC Type CMR or CL2R
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches	Inches			
300	3	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100% 22 Solid	PVC .015	.134	CMR	54 pf/ft* 97 pf/ft**	Gray
301	3	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100% 24 Strd.	PVC .015	.145	CMR	55 pf/ft* 99 pf/ft**	Gray
302	3	20 AWG (7x28) BC 10.1 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.162	CMR	60 pf/ft* 108 pf/ft**	Gray
303	3	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100% 20 Strd.	PVC .015	.178	CMR	68 pf/ft* 122 pf/ft**	Gray
304	3	16 AWG (19x29) 4.2 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.206	CMR	80 pf/ft* 144 pf/ft**	Gray
305	3	14 AWG (19x27) 2.7Ω/Mft	PVC .014	Al. Foil 100% 22 Strd.	PVC .015	.270	CL2R*	76 pf/ft* 137 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Selected Plenum Versions see pages 34
- Select cables are available in our Easybox®
- *- CL2R Meets 150V requirements for Low Voltage Circuits

Color Code	
All Cables	1. Black, 2. Red, 3. White
	JACKET: Gray

Communication & Control Cables

Communication & Control Cable

22 AWG Miniature Audio Cable/ Overall Shield

WEST PENN WIRE



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • Polypropylene insulation • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Twisted pair construction • Overall PVC jacket

Rating:

- NEC Type CM
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches				
450	2	22 AWG Solid 17.5 Ω/Mft	PP + .006	Al. Foil 100% 22 Solid	PVC .020	.118	CM	34 pf/ft* 67 pf/ft**	Black
451	3	22 AWG Solid 17.5 Ω/Mft	PP + .006	Al. Foil 100% 22 Solid	PVC .020	.130	CM	34 pf/ft* 67 pf/ft**	Black
452	2	22 AWG (7x30) 17 Ω/Mft	PP + .008	Al. Foil 100% 24 Strd.	PVC .020	.135	CM	32 pf/ft* 58 pf/ft**	Black

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

PP + Polypropylene

Color Code

Color Code	
All Cables	1. Black, 2. Red, 3. White
	JACKET: Black

Special Notes:

- Select cables are available in our Easybox®

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Sound and Audio / Special Cable

Description:

- ASTM Bare Copper • PVC insulation • Unshielded/ Shielded pair 100% coverage of aluminum polyester foil with drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches				
351	3 (2 Shld) (1 Unshld)	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100% 22 Solid	PVC .015	.159	CMR	54 pf/ft* 97 pf/ft**	Gray
352	3 (2 Shld) (1 Unshld)	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100% 24 Strd.	PVC .015	.169	CMR	55 pf/ft* 99 pf/ft**	Gray
355	4 (2 Shld) (2 Unshld)	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100% 22 Solid	PVC .015	.156	CMR	54 pf/ft* 97 pf/ft**	Gray
356†	4 (2 Shld) (2 Unshld)	20 (7x28) 18 (7x26)	PVC .010	Al. Foil 100% drain	PVC .015	.200	CMR	60 pf/ft* 108 pf/ft**	Gray
357	4 (2 Shld) (2 Unshld)	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100% 24 Strd.	PVC .015	.168	CMR	55 pf/ft* 99 pf/ft**	GY, BL
358	3 (2 Shld) (1 Unshld)	20 AWG (7x28) 10.1 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.189	CMR	60 pf/ft* 108 pf/ft**	Gray
359	4 (2 Shld) (2 Unshld)	20 AWG (7x28) 10.1 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.191	CMR	60 pf/ft* 108 pf/ft**	Gray
360	4 (2 Shld) (2 Unshld)	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100% 22 Strd.	PVC .015	.209	CMR	68 pf/ft* 122 pf/ft**	Gray
369	6 (2 Shld) (4 Unshld)	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100% 22 Solid	PVC .015	.174	CMR	54 pf/ft* 97 pf/ft**	Gray

Special Notes:

- Selected Plenum Versions see pages 35
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 38
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 5 or more conductors
- † Shielded pair contains 22AWG strd.drain wire

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Color Code

Catalog Number	351, 352, 355, 356, 357, 358, 359, 360	369
Primary Color Code	Shielded: Black, Red Unshielded: White, Green	1. Black, 2. Red, 3. White, 4. Green, 5. Brown, 6. Blue

JACKET: GY-Gray, BL-Blue

Communication & Control Cables

Communication & Control Cable 22 AWG Multiple Pair/ Unshielded featuring the PERFECT PAIR®



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
251	2	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .015	.179	CMR	--	Gray
252	3	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .015	.193	CMR	--	Gray
253	4	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .015	.212	CMR	--	Gray

Color Code
Colors
1. Black/ Red-Red
2. Black/ White-White
3. Black/ Green-Green
4. Black/ Blue-Blue
JACKET: Gray

Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Communication & Control Cables

WEST PENN WIRE



Description:

- ASTM Bare Copper • PVC insulation • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Communication & Control Cable Multiple Pair 22 AWG / Unshielded featuring the PERFECT PAIR®

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
651	2	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.197	CMR	28 pf/ft*	Gray
652	3	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.210	CMR	28 pf/ft*	Gray
653	4	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.230	CMR	28 pf/ft*	Gray
654	6	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .015	.289	CMR	28 pf/ft*	Gray
655	9	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .020	.340	CMR	28 pf/ft*	Gray
656	12	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .020	.384	CMR	28 pf/ft*	Gray
657	16	22 AWG (7x30) 17 Ω/Mft	PVC .010	None	PVC .020	.428	CMR	28 pf/ft*	Gray

* Capacitance between conductors.

Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Color Code		
Colors	Colors	Colors
1. Black/Red-Red	8. Red/White-White	15. Green/Blue-Blue
2. Black/White-White	9. Red/Green-Green	16. Green/Yellow-Yellow
3. Black/Green-Green	10. Red/Blue-Blue	
4. Black/Blue-Blue	11. Red/Yellow-Yellow	
5. Black/Yellow-Yellow	12. Red/Brown-Brown	
6. Black/Brown-Brown	13. Red/Orange-Orange	
7. Black/Orange-Orange	14. Green/White-White	
JACKET: Gray		

Communication & Control Cables

Communication & Control Cable 18 AWG Multiple Pair/ Unshielded featuring the PERFECT PAIR®

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits



Description:

- ASTM Bare Copper • PVC insulation • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL) C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
751	2	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.248	CMR	32 pf/ft*	Gray
752	3	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .015	.275	CMR	32 pf/ft*	Gray
753	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .020	.302	CMR	32 pf/ft*	Gray
754	6	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .020	.366	CMR	32 pf/ft*	Gray
755	9	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	None	PVC .020	.432	CMR	32 pf/ft*	Gray

* Capacitance between conductors.

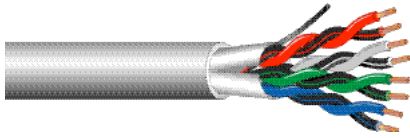
Color Code	
Colors	Colors
1. Black/Red-Red	6. Black/Brown-Brown
2. Black/White-White	7. Black/Orange-Orange
3. Black/Green-Green	8. Red/White-White
4. Black/Blue-Blue	9. Red/Green-Green
5. Black/Yellow-Yellow	
JACKET: Gray	

Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs
- Selected Plenum Versions see pages 31

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Multiple Pair 22 AWG / Overall Shielded featuring the **PERFECT PAIR**®

Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with 24 AWG Strd. TC drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches	Inches			
3251	2	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.185	CMR	54 pf/ft* 97 pf/ft**	Gray
3252	3	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.197	CMR	54 pf/ft* 97 pf/ft**	Gray
3253	4	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.216	CMR	54 pf/ft* 97 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

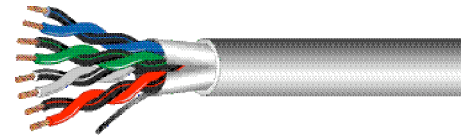
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Color Code- See pg. 19

Communication & Control Cables

Communication & Control Cable 22 AWG Multiple Pair/ Overall Shielded featuring the PERFECT PAIR®

WEST PENN WIRE



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with 24 AWG Strd. TC drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
3651	2	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.201	CMR	55 pf/ft* 99 pf/ft**	Gray
3652	3	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.214	CMR	55 pf/ft* 99 pf/ft**	Gray
3653	4	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.244	CMR	55 pf/ft* 99 pf/ft**	Gray
3654	6	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.293	CMR	55 pf/ft* 99 pf/ft**	Gray
3655	9	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.343	CMR	55 pf/ft* 99 pf/ft**	Gray
3656	12	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.388	CMR	55 pf/ft* 99 pf/ft**	Gray

Color Code	
Colors	Colors
1. Black/Red-Red	8. Red/White-White
2. Black/White-White	9. Red/Green-Green
3. Black/Green-Green	10. Red/Blue-Blue
4. Black/Blue-Blue	11. Red/Yellow-Yellow
5. Black/Yellow-Yellow	12. Red/Brown-Brown
6. Black/Brown-Brown	
7. Black/Orange-Orange	
JACKET: Gray	

* Capacitance between conductors.

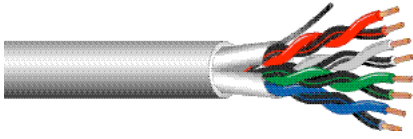
** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Multiple Pair 18 AWG / Overall Shielded featuring the PERFECT PAIR®

Description:

- ASTM Bare Copper • PVC insulation • Overall shield 100% coverage of aluminum polyester foil with 22 AWG Strd. TC drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
3751	2	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.252	CMR	68 pf/ft* 122 pf/ft**	Gray
3752	3	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.279	CMR	68 pf/ft* 122 pf/ft**	Gray
3753	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.306	CMR	68 pf/ft* 122 pf/ft**	Gray
3754	6	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.369	CMR	68 pf/ft* 122 pf/ft**	Gray

Color Code- See pg. 21

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Communication & Control Cables

Communication & Control Cable 22 AWG Multiple Pair/ Each Pair Shielded featuring the PERFECT PAIR®



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Each pair shielded 100% coverage of aluminum polyester foil with 22 AWG Solid TC drain wire
- Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Ind. Pair Shielding % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
420	2	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.195	CMR	54 pf/ft* 97 pf/ft**	Gray
421	3	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.207	CMR	54 pf/ft* 97 pf/ft**	Gray
429	4	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.228	CMR	54 pf/ft* 97 pf/ft**	Gray
422	6	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.285	CMR	54 pf/ft* 97 pf/ft**	Gray
423	9	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.336	CMR	54 pf/ft* 97 pf/ft**	Gray
424	12	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.379	CMR	54 pf/ft* 97 pf/ft**	Gray
425	15	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .020	.423	CMR	54 pf/ft* 97 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Color Code		
Colors	Colors	Colors
1. Black/Red-Red	8. Red/White-White	15. Green/Blue-Blue
2. Black/White-White	9. Red/Green-Green	
3. Black/Green-Green	10. Red/Blue-Blue	
4. Black/Blue-Blue	11. Red/Yellow-Yellow	
5. Black/Yellow-Yellow	12. Red/Brown-Brown	
6. Black/Brown-Brown	13. Red/Orange-Orange	
7. Black/Orange-Orange	14. Green/White-White	
JACKET: Gray		

Special Notes:

- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 41
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Multiple Pair 22AWG / Each Pair Shielded

Description:

- ASTM Tinned Copper • Polyolefin insulation • Each pair shielded 100% coverage of aluminum polyester foil with 24 AWG Strd. TC drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Ind. Pair Shielding % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
D430	2	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.244	CM	34pf/ft* 67 pf/ft**	Gray
D431	3	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.258	CM	34pf/ft* 67 pf/ft**	Gray
D439	4	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.280	CM	34pf/ft* 67 pf/ft**	Gray
D432	6	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.332	CM	34pf/ft* 67 pf/ft**	Gray
D433	9	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .034	.390	CM	34pf/ft* 67 pf/ft**	Gray
D434	12	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .034	.420	CM	34pf/ft* 67 pf/ft**	Gray
D436	19	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .047	.565	CM	34pf/ft* 67 pf/ft**	Gray
D438	27	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .047	.678	CM	34pf/ft* 67 pf/ft**	Gray

Special Notes:

- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 41
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Electrical Characteristics
Nom. Vel of Propagation - 66%
Nom. Impedance Ω 22 Awg.(7x30)- 55Ω

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Color Code- See pg. 23

Communication & Control Cables

Communication & Control Cable 18 AWG Multiple Pair/ Each Pair Shielded



Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Tinned Copper • Polyolefin insulation • Each pair shielded 100% coverage of aluminum polyester foil with 22 AWG Strd. TC drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Ind. Pair Shielding % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
D440	2	18 AWG (7x26) 6.6 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.268	CM	42 pf/ft* 76 pf/ft**	Gray
D441	3	18 AWG (7x26) 6.6 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.285	CM	42 pf/ft* 76 pf/ft**	Gray
D442	4	18 AWG (7x26) 6.6 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.312	CM	42 pf/ft* 76 pf/ft**	Gray

Electrical Characteristics
Nom. Vel of Propagation - 66%

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Selected Plenum Versions see pages 36
- Select cables are available in our Easybox®

Color Code		
Colors	Colors	Colors
1. Black/Red	10. Red/Blue	19. White/Blue
2. Black/White	11. Red/Yellow	20. White/Yellow
3. Black/Green	12. Red/Brown	21. White/Brown
4. Black/Blue	13. Red/Orange	22. White/Orange
5. Black/Yellow	14. Green/White	23. Blue/Yellow
6. Black/Brown	15. Green/Blue	24. Blue/Brown
7. Black/Orange	16. Green/Yellow	25. Blue/Orange
8. Red/White	17. Green/Brown	26. Brown/Yellow
9. Red/Green	18. Green/Orange	27. Brown/Orange
JACKET: Gray		

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Special Purpose Cable/ Shielded/Unshielded

Description:

- ASTM Bare Copper • PVC insulation • Unshielded/ Shielded
- pairs 100% coverage of aluminum polyester foil with TC drain wire
- Short overall twist construction • Overall PVC jacket

Applications:

Indoor for:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Rating:

- NEC Type CMR
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Conductors	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Ind. Pair Shielding % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
373	(6) 1 Shld. Pr. 2 Unshld. Pr.	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.198	CMR	--	Gray
374	(4) 1 Unshld. Pr. 1 Unshld Pr.	18 AWG (7x26) 22 Awg. (7x30)	PVC .010	None	PVC .015	.222	CMR	--	Gray

Special Notes:

- Select cables are available in our Easybox®

Color Code		
Catalog No.	373	374
Primary Color Code	Shld Pair: Black/Red	18Awg: Black/White
	Unshld Pair: Black/ Green & Black/White	22Awg.Red/Green
JACKET: Gray		

Communication & Control Cables

Communication & Control Cable Cluster Speaker Cable/ Twisted Pair Unjacketed

WEST PENN WIRE

Applications:

Indoor for:

- Cluster Speaker Cable
- Power-Limited Circuit Applications
- Sound and Audio
- Background Music

Description:

- ASTM Bare Copper • PVC Insulation with Nylon • Short overall twist Construction • Unjacketed

Rating:

- NEC Type CL2
- (UL) or (ETL)us Listed
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
C205	1	16 AWG (19x29) 4.2 Ω/Mft	PVC .015 Nylon .005	None	None	.194	CL2	--	Unjacketed
C206	1	14 AWG (41x30) 2.7 Ω/Mft	PVC .015 Nylon .005	None	None	.222	CL2	--	Unjacketed
C207	1	12 AWG (65x30) 1.7 Ω/Mft	PVC .015 Nylon .005	None	None	.260	CL2	--	Unjacketed

Color Code	
All Cables	1. Black, 2. White
	JACKET: Unjacketed

Special Notes:

- Select cables are available in our Easybox®

Communication & Control Cables

WEST PENN WIRE



Communication & Control Cable Cluster Speaker Cable / Twisted Pair

Description:

- ASTM Bare Copper • PVC insulation with Nylon • Twisted pair construction • Overall PVC Sunlight Resistant jacket

Applications:

- Indoor/ Outdoor for:
- Sound and Audio

Rating:

- NEC Type TC
- (UL) Listed
- Meets 600 Volt - Class 1
- Approved for direct burial and outdoor use

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
C210	1	10 AWG (65x28) 1.10 Ω/Mft	PVC .020 Nylon .005	None	.047	.357	Tray Cable TC	--	Gray

Color Code	
C210	1. Black, 2. White
	JACKET: Gray



Description:

- ASTM Bare Copper • (HA210)- Polyolefin, (25210)- Fluoropolymer
- Twisted Pair Construction • Overall Jacket

Applications:

- Indoor for:
- Sound and Audio
 - Power-Limited Control Cable

Ratings:

- HA210- NEC Type CL2
- 25210- NEC Type CL2P
- (UL) or (ETL)us Listed

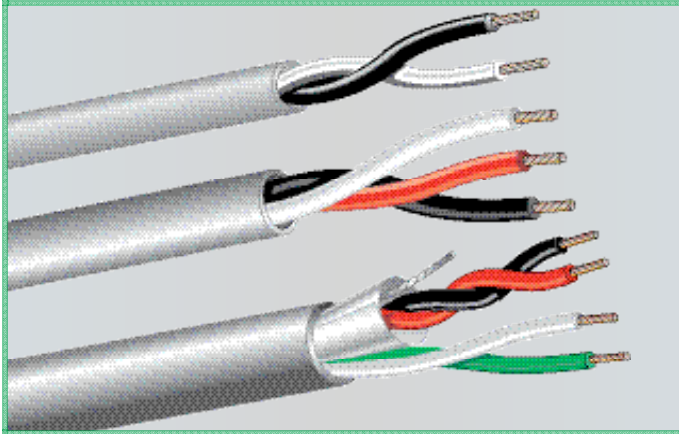
Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
HA210	1	10 AWG (65x28) 1.10 Ω/Mft	.012	None	.020	.275	CL2	--	Gray
25210	1	10 AWG (65x28) 1.10 Ω/Mft	.008	None	.015	.275	CL2P	--	Ivory

Color Code	
Color Code	1. Black, 2. White
	HA210 JACKET: Gray
	25210 JACKET: Ivory

Communication & Control Plenum Cables

WEST PENN WIRE



West Penn Wire manufactures one of the largest, economical and reliable Communications and Control Cables in the Market. West Penn Wire Low Voltage Circuitry cables are typically used for control purposes such as remote signalling, as well as communication applications. Typical systems could include sound audio, security, and intercom.

These cables are designed and manufactured to meet NEC Article 725 and 800 requirements. All NEC rated cables are verified by an Independent Testing Laboratory.

For more detailed information on our Communication Plenum cables, contact our Customer Service Department at 1-800-245-4964, or e-mail us at sales@westpenn-wpw.com. Information can also be found on our website- www.westpenn-wpw.com

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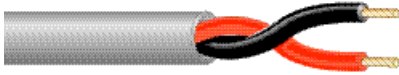


Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Communication & Control Plenum Cables

WEST PENN WIRE

Plenum Communication & Control Cable Two Conductor / Unshielded Plenecon II® Extra Flexible



Description:

- ASTM Bare Copper • Polymer alloy insulation • Short over-all twist lengths • Overall plenum PVC jacket

Rating:

- NEC Type CMP or CL2P
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
25221B	2	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.110	CMP	--	GY, BL
25222B	2	20 AWG (7x28) 10.5 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.125	CMP	--	Gray
25224B	2	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.138	CMP	--	GY, BK, BN, GN, WH, BL, YE
25225B	2	16 AWG (19x29) 4.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.159	CMP	--	GY, BK, BN
25226B	2	14 AWG (19x27) 2.7 Ω/Mft	Polymer alloy .012	None	Plenum PVC .015	.190	CL2P	--	GY, BK, BN
25227B	2	12 AWG (19x25) 1.7 Ω/Mft	Polymer alloy .012	None	Plenum PVC .015	.221	CL2P	--	GY, BK, BN

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Color Code	
All Cables	1. Black, 2. Red
	JACKET: GY-Gray, BK-Black, BN-Brown, WH-White, YE-Yellow, BL-Blue, GN-Green

Communication & Control Plenum Cables

Plenum Communication & Control Cable

Multiple Conductor/ Unshielded

22 AWG Plenecon II® Extra Flexible

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits



Description:

- ASTM Bare Copper • Polymer alloy insulation • Cabled construction • Overall plenum PVC jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
25231B	3	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.136	CMP	--	Gray
25241B	4	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.148	CMP	--	Gray
25855B	5	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.162	CMP	--	Gray
25270B	6	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.177	CMP	--	Gray
25271B	8	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.195	CMP	--	Gray
25272B	10	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.230	CMP	--	Gray
25273B	12	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.238	CMP	--	Gray
25274B New	15	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.260	CMP	--	Gray

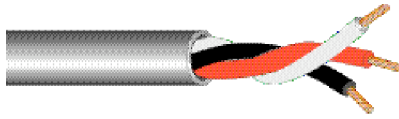
Color Code		
Colors	Colors	Colors
1. Black	7. Orange	13. White/Black
2. Red	8. Yellow	14.. White/ Red
3. White	9. Purple	15. White/Green
4. Green	10. Gray	
5. Brown	11. Pink	
6. Blue	12. Tan	
JACKET: Gray		

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Communication & Control Plenum Cables

WEST PENN WIRE



Plenum Communication & Control Cable Multiple Conductor/ Unshielded 16, 18, and 20 AWG Plenecon II® Extra Flexible

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music

Description:

- ASTM Bare Copper • Polymer alloy insulation • Cabled construction • Overall plenum PVC jacket

Rating:

- NEC Type CMP
- (UL) -C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
25232B New	3	20 AWG (7x28) 10.5 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.150	CMP	--	Gray
25242B	4	20 AWG (7x28) 10.5 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.170	CMP	--	Gray
25234B	3	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.173	CMP	--	Gray
25244B	4	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.189	CMP	--	Gray
25186B	6	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.228	CMP	--	Gray
25188B New	8	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.241	CMP	--	Gray
25245B New	4	16 AWG (19x29) 4.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.221	CMP	--	Gray

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Color Code	
Colors	Colors
1. Black	5. Brown
2. Red	6. Blue
3. White	7. Orange
4. Green	8. Yellow
JACKET: Gray	

Communication & Control Plenum Cables

Plenum Communication & Control Cable Multiple Conductor/ Unshielded

14 and 12 AWG Plenecon II® Extra Flexible

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
25236B	3	14 AWG (19x27) 2.7 Ω/Mft	Polymer alloy .012	None	Plenum PVC .015	.240	CL2P	--	Gray
25246B New	4	14 AWG (19x27) 2.7 Ω/Mft	Polymer alloy .012	None	Plenum PVC .015	.265	CL2P	--	Gray
25238B New	3	12 AWG (19x25) 1.7 Ω/Mft	Polymer alloy .012	None	Plenum PVC .015	.289	CL2P	--	Gray
25248B New	4	12 AWG (19x25) 1.7 Ω/Mft	Polymer alloy .012	None	Plenum PVC .015	.311	CL2P	--	Gray

Color Code- See Page 30



Description:

- ASTM Bare Copper • Polymer alloy insulation • Cabled construction • Overall plenum PVC jacket

Rating:

- NEC Type CL2P
- (UL) Listed or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Plenum Communication & Control Cable Multiple Pair/ Unshielded

18 AWG Plenecon II® Extra Flexible

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
25751B New	2	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.258	CMP	--	Gray
25752B New	3	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.277	CMP	--	Gray
25753B New	4	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	None	Plenum PVC .015	.306	CMP	--	Gray

Description:

- ASTM Bare Copper • Polymer alloy insulation • Twisted pair construction • Overall plenum PVC jacket

Rating:

- NEC Type CMP



Color Code

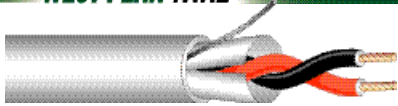
All Cables	1. Black/White, 2. Black/Red, 3. Black/Green
	JACKET: Gray

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Communication & Control Plenum Cables

WEST PENN WIRE



Plenum Communication & Control Cable Two Conductor/ Shielded Plenecon II® Extra Flexible

Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music

Description:

- ASTM Bare Copper • Polymer alloy insulation • Short overall twist lengths • Overall shield coverage 100% aluminum polyester foil with TC drain wire • Overall plenum PVC jacket

Rating:

- NEC Type CMP and CL2P
- (UL)-C(UL) Listed or (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
25290B	1 Pair	22 AWG Solid 17.5 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Solid	Plenum PVC .015	.121	CMP	54 pf/ft* 97 pf/ft**	Gray
25291B	1 Pair	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.128	CMP	55 pf/ft* 99 pf/ft**	GY, VT, YE, BL
25292B	1 Pair	20 AWG (7x28) 10.5 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.143	CMP	60 pf/ft* 108 pf/ft**	GY, BL
25293B	1 Pair	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.158	CMP	68 pf/ft* 122 pf/ft**	GY, YE, BL
25294B	1 Pair	16 AWG (19x29) 4.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.180	CMP	75 pf/ft* 140 pf/ft**	Gray
25295B	1 Pair	14 AWG (19x27) 2.7 Ω/Mft	Polymer alloy .012	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.220	CL2P	76 pf/ft* 137 pf/ft**	Gray
25296B	1 Pair	12 AWG (19x25) 1.7 Ω/Mft	Polymer alloy .012	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.246	CL2P	88 pf/ft* 158 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Color Code	
All Cables	1. Black, 2. Red
	JACKET: GY-Gray, VT-Violet, YE-Yellow, BL-Blue

Communication & Control Plenum Cables

Plenum Communication & Control Cable Multiple Conductor/ Shielded 22 AWG Plenecon II® Extra Flexible



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • Polymer Alloy Insulation • Cabled construction • Overall shield coverage 100% aluminum polyester foil with TC drain wire • Overall plenum PVC jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
25300B	3	22 AWG Solid 17.5 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Solid	Plenum PVC .015	.133	CMP	54 pf/ft* 97 pf/ft**	Gray
25301B	3	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.141	CMP	55 pf/ft* 99 pf/ft**	Gray
253241B	4	22 AWG (7x30) 17Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.153	CMP	55 pf/ft* 99 pf/ft**	Gray
253855B New	5	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.165	CMP	55 pf/ft* 99 pf/ft**	Gray
253270B	6	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.182	CMP	55 pf/ft* 99 pf/ft**	Gray
253271B	8	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.197	CMP	55 pf/ft* 99 pf/ft**	Gray
253272B New	10	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.229	CMP	55 pf/ft* 99 pf/ft**	Gray
253274B New	15	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.264	CMP	55 pf/ft* 99 pf/ft**	Gray

Color Code		
Colors	Colors	Colors
1. Black	7. Orange	13. White/Black
2. Red	8. Yellow	14.. White/ Red
3. White	9. Purple	15. White/Green
4. Green	10. Gray	
5. Brown	11. Pink	
6. Blue	12. Tan	
JACKET: Gray		

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Communication & Control Plenum Cables

WEST PENN WIRE



Plenum Communication & Control Cable Multiple Conductor/ Shielded 18 and 20 AWG Plenecon II® Extra Flexible

Description:

- ASTM Bare Copper • Polymer Alloy Insulation • Cabled construction
- Overall shield coverage 100% aluminum polyester foil with TC drain wire • Overall plenum PVC jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music
 - Power-limited Control Circuits

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches				
25302B New	3	20 AWG (7x28) 10.5 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.154	CMP	60 pf/ft* 108 pf/ft**	Gray
25303B	3	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.175	CMP	68 pf/ft* 122 pf/ft**	Gray
253244B	4	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.194	CMP	68 pf/ft* 122 pf/ft**	Gray
253186B	6	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.232	CMP	68 pf/ft* 122 pf/ft**	Gray
253188B New	8	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.251	CMP	68 pf/ft* 122 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Color Code	
Colors	Colors
1. Black	5. Brown
2. Red	6. Blue
3. White	7. Orange
4. Green	8. Yellow
JACKET: Gray	

Communication & Control Plenum Cables

Plenum Communication & Control Cable Combination/ Shielded and Unshielded Plenecon II® Extra Flexible



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard spool size 1000ft.

Description:

- ASTM Bare Copper • Polymer Alloy Insulation • Cabled construction • Unshielded/Shielded coverage 100% aluminum polyester foil with TC drain wire • Overall plenum PVC jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches				
25352B	3 (2 Shld) (1 Unshld)	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.165	CMP	55 pf/ft* 99 pf/ft**	Gray
25355B	4 (2 Shld) (2 Unshld)	22 AWG Solid 17.5 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Solid	Plenum PVC .015	.153	CMP	54 pf/ft* 97 pf/ft**	GY, BN, YE
25357B	4 (2 Shld) (2 Unshld)	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.162	CMP	55 pf/ft* 99 pf/ft**	GY, BL
25358B	3 (2 Shld) (1 Unshld)	20 AWG (7x28) 10.1 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.182	CMP	60 pf/ft* 108 pf/ft**	Gray
25359B	4 (2 Shld) (2 Unshld)	20 AWG (7x28) 10.1 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.186	CMP	60 pf/ft* 108 pf/ft**	Gray
25372B	5 (3 Shld) (2 Unshld)	22 AWG Solid 17.5 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Solid	Plenum PVC .015	.208	CMP	54 pf/ft* 97 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Color Code		
Catalog No.	All Cables	25372B
Primary Color Code	1. Black, 2. Red 3.White, 4. Green	Under Shield: 1.Black, 2.Red, 3.White, Outside Shield: 1.Black, 2.Green
JACKET: GY-Gray, BN-Brown, YE-Yellow, BL-Blue		

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 194
- Select cables are available in our Easybox®

Communication & Control Plenum Cables

WEST PENN WIRE



Plenum Communication & Control Cable Multiple Pair / Individually Shielded Pairs

Description:

- ASTM Bare Copper • Polymer Alloy Insulation • Twisted pair construction • Each pair shielded 100% coverage of aluminum polester foil with drain wire • Short overall twist construction
- Overall plenum PVC Jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Applications:

- Indoor within ducts, plenums and other spaces used for environmental air:
- Intercom Systems
 - Security Systems
 - Sound and Audio
 - Background Music

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Individual Shielding & Drain Wire	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
25510B	2	22 AWG (7x30) 17 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 24 Strd.	Plenum PVC .015	.204	CMP	55 pf/ft* 99 pf/ft**	GY, GN, BL
25440B	2	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.257	CMP	68 pf/ft* 122 pf/ft**	Gray

Special Note: 25510B & 25440B

- Employs individually shielded pairs with one strd. drain wire common to all shields to ensure greater shielding and lower DC resistance

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Color Code	
25510B	1. Black, 2. Red, 3. White, 4. Green
25440B	JACKET: GY-Gray, GN-Green, BL-Blue

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & thickness	Individual Shielding & Drain Wire	Jacket type & Thickness	Nom. O.D. Inches	NEC type	Nom. Capacitance	Jacket Color
			Inches		Inches				
25441B	3	18 AWG (7x26) 6.2 Ω/Mft	Polymer alloy .010	Al. Foil - 100% 22 Strd.	Plenum PVC .015	.283	CMP	68 pf/ft* 122 pf/ft**	Gray

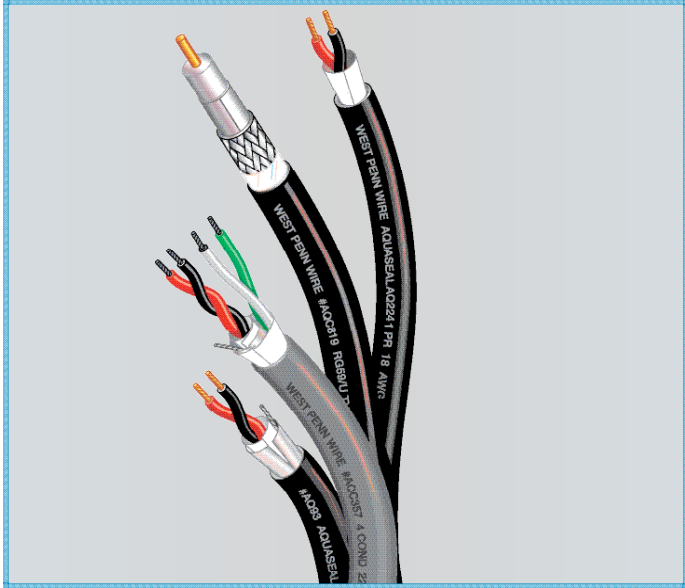
Special Note: 25441B

- Employs individually shielded pairs with a strd. drain wire for each pair

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Color Code	
25441B	1. Black/Red, 2. Black/Green, 3. Black/Blue
	JACKET: Gray

Aquaseal Cables



When you think of Low-Voltage Indoor/Outdoor installations, one name jumps out of the water, **AQUASEAL Water Resistant Cables.®**

West Penn Wire set the standard for indoor/outdoor fire-alarm installation in 1995. Since then, **AQUASEAL Water Resistant Cables**, the industries original water resistant water blocking low voltage cable, has become the recognized name for indoor/outdoor application such as:

- Power-Limited Fire Alarm Circuits
- Intercom Systems
- Sound & Audio
- Background Music
- CCTV/ CATV/ Digital Video

For more detailed information on our Aquaseal cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at sales@westpenn-wpw.com. Information can also be found on our website- www.westpenn-wpw.com

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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.



Aquaseal Cables

WEST PENN WIRE



Aquaseal® Water Blocking Cable Combination / Shielded and Unshielded

Description:

- ASTM Bare Copper • PVC insulation • Unshielded/Shielded pair 100% coverage of aluminum polyester foil with drain wire • Short overall twist Construction • Waterblocked construction • Overall Sunlight/ Moisture Resistant PVC jacket

Rating:

- NEC Type CM or CL3
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Applications:

Indoor/Outdoor Use:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	Drain Wire	Inches				
AQC351	3 (2 Shld) (1 Unshld)	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil- 100% 22 Solid	PVC .025	.215	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC352	3 (2 Shld) (1 Unshld)	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil- 100% 24 Strd.	PVC .025	.230	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC355	4 (2 Shld) (2 Unshld)	22 AWG. Solid 17.5 Ω/Mft	PVC .010	Al. Foil- 100% 22 Solid	PVC .025	.220	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC357	4 (2 Shld) (2 Unshld)	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil- 100% 24 Strd.	PVC .025	.235	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC369	6 (2 Shld) (4 Unshld)	22 AWG. Solid 17.5 Ω/Mft	PVC .010	Al. Foil- 100% 22 Solid	PVC .025	.240	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC373	6 (2 Shld) (4 Unshld)	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil- 100% 22 Strd.	PVC .025	.260	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC359	4 (2 Shld) (2 Unshld)	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil- 100% 22 Strd.	PVC .025	.266	CM CL3	60 pf/ft* 108 pf/ft**	Gray
AQC358	3 (2 Shld) (1 Unshld)	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil- 100% 22 Strd.	PVC .025	.260	CM CL3	60 pf/ft* 108 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

Color Code			
Catalog No.	AQC351, AQC352, AQC358, AQC355, AQC357, AQC359	AQC369	AQC373
Primary Color Code	Shielded: Black, Red Unshielded: White, Green	Black, Red, White, Green, Brown, Blue	Shielded: Black, Red Unshielded: Black, Green & Black, White
JACKET: Gray			

Aquaseal Cables

Aquaseal® Water Blocking Cable Two & Multiple Conductor / Shielded

Applications:

Indoor/Outdoor Use:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits



Description:

- ASTM Bare Copper • PVC insulation • Short overall twist lengths
- Overall shield 100% coverage of aluminum polyester foil with drain wire • Waterblocked construction • Overall Sunlight/Moisture Resistant PVC jacket

Rating:

- NEC Type CM or CL3
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches	Drain Wire	Inches				
AQC290	1 Pair	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil-100% 22 Solid	PVC .025	.200	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC291	1 Pair	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil-100% 24 Strd.	PVC .025	.205	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC3274	15 Cond.	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil-100% 24 Strd.	PVC .025	.361	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC292	1 Pair	20 AWG (7x28) 10.5 Ω/Mft	PVC .010	Al. Foil-100% 22 Strd.	PVC .025	.220	CM CL3	60 pf/ft* 108 pf/ft**	Gray
AQC293	1 Pair	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil-100% 22 Strd.	PVC .025	.235	CM CL3	68 pf/ft* 122 pf/ft**	Gray
AQC3186	6 Cond.	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil-100% 22 Strd.	PVC .025	.323	CM CL3	68 pf/ft* 122 pf/ft**	Gray
AQC3283	12 Cond.	18 AWG (7x26) 6.2 Ω/Mft	PVC .010	Al. Foil-100% 22 Strd.	PVC .025	.410	CM CL3	68 pf/ft* 122 pf/ft**	Gray

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Color Code	
Catalog No.	AQC291, AQC292, AQC293, AQC290 AQC3186, AQC3274, AQC3283
Primary Color Code	1. Black, 2. Red, 3. White, 4. Green, 5. Brown, 6. Blue, 7. Orange, 8. Yellow, 9. Purple, 10. Gray, 11. Pink, 12. Tan, 13. White/Black, 14. White/Red, 15. White/Green
JACKET: Gray Conductors 13 and above have PERFECT STRIPE®	

Special Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

Aquaseal Cables

WEST PENN WIRE



Aquaseal® Water Blocking Cable Multiple Conductor / Unshielded

Applications:

Indoor/Outdoor Use:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC Insulation • Short overall twist construction • Unshielded • Waterblocked Construction
- Overall Sunlight/ Moisture Resistant PVC Jacket

Rating:

- NEC Type CM / CL3
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding % Cov.	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	Drain Wire	Inches	Inches			
AQC224	1 Pair	18 AWG (7x26) 6.2Ω/Mft	PVC .010	None	PVC .025	.194	CM CL3	NA	Gray
AQC188	8	18 AWG (7x26) 6.2Ω/Mft	PVC .010	None	PVC .025	.340	CM CL3	NA	Gray
AQC225	1 Pair	16 AWG (19x29) 4.2Ω/Mft	PVC .010	None	PVC .025	.228	CM CL3	NA	Gray
AQC240	4	22 AWG Solid 17.5 Ω/Mft	PVC .010	None	PVC .025	.194	CM CL3	NA	Gray

Special Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

Color Code	
All Cables	1. Black, 2. Red, 3. White, 4. Green, 5. Brown, 6. Blue, 7. Orange, 8. Yellow
	JACKET: Gray

Aquaseal Cables

Aquaseal® Water Blocking Cable Multiple Pair / Each Pair Individually Shielded

Applications:

Indoor/Outdoor Use:

- Intercom Systems
- Security Systems
- Sound and Audio
- Background Music
- Power-limited Control Circuits



Description:

- ASTM Bare Copper • PVC insulation • Short overall twist lengths
- Individually shield 100% coverage of aluminum polyester foil with TC drain wire • Waterblocked construction • Overall Sunlight/ Moisture Resistant PVC jacket

Rating:

- NEC Type CM or CL3
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Individual Shielding % Cov. Drain Wire	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
AQC430	2	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil-100% 24 Strd.	PVC .025	.380	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC439	4	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil-100% 24 Strd.	PVC .025	.427	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC432	6	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil-100% 24 Strd.	PVC .025	.520	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC434	12	22 AWG (7x30) 17 Ω/Mft	PVC .010	Al. Foil-100% 24 Strd.	PVC .025	.698	CM CL3	55 pf/ft* 99 pf/ft**	Gray
AQC420 New	2	22 AWG (Solid) 17.5 Ω/Mft	PVC .010	Al. Foil-100% 22 Solid	PVC .025	.370	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC429 New	4	22 AWG (Solid) 17.5 Ω/Mft	PVC .010	Al. Foil-100% 22 Solid	PVC .025	.417	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC422 New	6	22 AWG (Solid) 17.5 Ω/Mft	PVC .010	Al. Foil-100% 22 Solid	PVC .025	.510	CM CL3	54 pf/ft* 97 pf/ft**	Gray
AQC424 New	12	22 AWG (Solid) 17.5 Ω/Mft	PVC .010	Al. Foil-100% 22 Solid	PVC .025	.588	CM CL3	54 pf/ft* 97 pf/ft**	Gray

Color Code	
Colors	Colors
1. Black/Red-Red	8. Red/White-White
2. Black/White-White	9. Red/Green-Green
3. Black/Green-Green	10. Red/Blue-Blue
4. Black/Blue-Blue	11. Red/Yellow-Yellow
5. Black/Yellow-Yellow	12. Red/Brown-Brown
6. Black/Brown-Brown	
7. Black/Orange-Orange	

JACKET: Gray

* Capacitance between conductors.

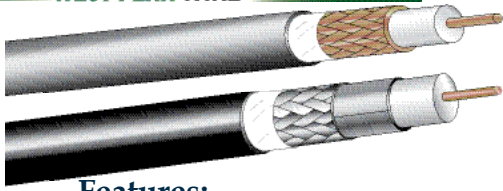
** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

Aquaseal Cables

WEST PENN WIRE



Aquaseal® Water Blocking Cable Coaxial Cables / Pro-Video- CATV - CCTV

Applications:

Indoor/Outdoor:

- CCTV Security
- SDI - Pro-Video
- MATV/CATV

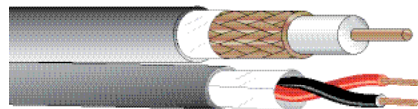
Features:

- NEC Type CM
- Waterblocking Tape

Mechanical Specifications

Standard spool size 1000ft.

Catalog No.	Conductor Type & Nom. D.C.R	Nominal O.D	Insulation Type, O.D.	Shielding % Coverage	Jacket Type	Jacket Colors	NEC Type	Jacket Color
		Inches	Inches					
AQC819	20 AWG Solid BC 10 Ω/M'	.242	Gas Injected PE .142	Waterblocking tape + Bifoil 100% TC Braid 95%	Sunlight Resistant PVC	Black	CM	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59		
AQC815	20 AWG Solid BC 10 Ω/M'	.242	Gas Injected PE .142	Waterblocking tape + Bare Copper Braid 95%	Sunlight Resistant PVC	Black	CM	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59		
AQC841	18 AWG Solid BC 6.5 Ω/M'	.275	Gas Injected PE .180	Waterblocking tape + Bifoil 100% + Al. Braid 65%	Sunlight Resistant PVC	Black	CM	Black
						Connectors "F" Type- CN-F56AQ "F" Compression - CN-FSNS-6		
AQC806	18 AWG Solid BC 6.5 Ω/M'	.280	Gas Injected PE .180	Waterblocking tape + Bare Copper Braid 95%	Sunlight Resistant PVC	Black	CM	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6		
AQC2806	18 AWG Solid BC 6.5 Ω/M'	.280 x .580	Gas Injected PE .180	Waterblocking tape + Bare Copper Braid 95%	Sunlight Resistant PVC Black- Lickity Split	Black	CM	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6		



CableConstruction:
1 Coax unit plus 1 pair 16 AWG Unshld.

AQC2806- Lickity Split Design

Electrical Specifications:

See Coaxial Cable Section for Electrical Specifications

Aquaseal Cables

Aquaseal® Water Blocking Cable Multi-Conductor/ 300 Volts Power-Limited



Applications:

Indoor/Outdoor Use:

- Low Voltage Industrial Process Control
- Power-Limited Circuits
- Power-Limited Fire Alarm Circuits
- Power-Limited Tray Cable PLTC

Description:

- ASTM Bare Copper • PVC insulation with nylon • Twisted pair or cabled construction • Waterblocked Construction • Overall Sunlight/Moisture Resistant PVC jacket

Rating:

- NEC Type FPL or PLTC
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Direct Burial
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
AQ224	1 Pair	18 AWG (7x26) 6.2 Ω/Mft	PVC .015 Nylon .005	None	.035	.270	FPL PLTC	25 pf/ft*	Black
AQ244	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .015 Nylon .005	None	.040	.327	FPL PLTC	25 pf/ft*	Black
AQ225	1 Pair	16 AWG (7x24) 4.2 Ω/Mft	PVC .015 Nylon .005	None	.040	.295	FPL PLTC	28 pf/ft*	Black
AQ245	4	16 AWG (7x24) 4.2 Ω/Mft	PVC .015 Nylon .005	None	.040	.355	FPL PLTC	28 pf/ft*	Black
AQ226	1 Pair	14 AWG (19x27) 2.7 Ω/Mft	PVC .015 Nylon .005	None	.040	.310	FPL PLTC	32 pf/ft*	Black
AQ246	4	14 AWG (19x27) 2.7 Ω/Mft	PVC .015 Nylon .005	None	.040	.395	FPL PLTC	32 pf/ft*	Black
AQ227	1 Pair	12 AWG (19x25) 1.7 Ω/Mft	PVC .015 Nylon .005	None	.040	.340	FPL PLTC	36 pf/ft*	Black

* Capacitance between conductors.

Color Code	
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Black

Special Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

Aquaseal Cables

WEST PENN WIRE



Aquaseal® Water Blocking Cable Multi-Conductor/ 300 Volts Power-Limited Shielded

Applications:

Indoor/Outdoor Use:

- Low Voltage Industrial Process Control
- Power-Limited Circuits
- Power-Limited Fire Alarm Circuits
- Power-Limited Tray Cable PLTC

Description:

- ASTM Bare Copper • PVC insulation with Nylon • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with drain wire • Waterblocked Construction
- Overall Sunlight/ Moisture Resistant PVC jacket

Rating:

- NEC Type FPL or PLTC
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Direct Burial
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
AQ293	1 Pair	18 AWG (7x26) 6.2Ω/Mft	PVC .015 Nylon .005	Al. Foil- 100% 22 Strd.	.040	.310	FPL PLTC	32 pf/ft* 58 pf/ft**	Black
AQ3244	4	18 AWG (7x26) 6.2Ω/Mft	PVC .015 Nylon .005	Al. Foil- 100% 22 Strd.	.040	.371	FPL PLTC	32 pf/ft* 58 pf/ft**	Black
AQ294	1 Pair	16 AWG (7x24) 4.2Ω/Mft	PVC .015 Nylon .005	Al. Foil- 100% 22 Strd.	.040	.328	FPL PLTC	37 pf/ft* 67 pf/ft**	Black
AQ3245	4	16 AWG (7x24) 4.2Ω/Mft	PVC .015 Nylon .005	Al. Foil- 100% 22 Strd.	.050	.415	FPL PLTC	37 pf/ft* 67 pf/ft**	Black
AQ295	1 Pair	14 AWG (19x27) 2.7Ω/Mft	PVC .015 Nylon .005	Al. Foil- 100% 22 Strd.	.040	.350	FPL PLTC	46 pf/ft* 83 pf/ft**	Black
AQ296	2	12 AWG (19x25) 1.7Ω/Mft	PVC .015 Nylon .005	Al. Foil- 100% 22 Strd.	.040	.375	FPL PLTC	54 pf/ft* 97 pf/ft**	Black

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Aquaseal Water Resistant Cables is a Registered Trademark of West Penn Wire
- Orange ripcord under jacket

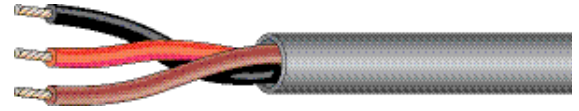
Color Code	
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Black

Process Control Cables

WEST PENN WIRE

Tray Cable/ Class 1 600V

Multiple Conductor Unshielded



Applications:

- Industrial Signaling and Process Control Circuits
- Class 1 Circuits as defined in Article 725
- Optional Use: Non-Power limited Fire Alarm as defined in Article 760

Description:

- ASTM bare copper • PVC insulation with Nylon • PVC fillers and polyester binders as required • Twisted pair or cabled construction • Overall Sunlight Resistant PVC jacket.

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
					Inches				
TC2980	1 Pair	18 AWG (7x26) 6.2 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.284	TC	--	Black
TC2981	3	18 AWG (7x26) 6.2 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.292	TC	--	Black
TC2982	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.314	TC	--	Black
TC2990	1 Pair	16 AWG (7x24) 4.2 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.295	TC	--	Black
TC2992	4	16 AWG (7x24) 4.2 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.337	TC	--	Black
TC2994	1 Pair	14 AWG (7 strands) 2.7 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.332	TC	--	Black
TC2998	1 Pair	12 AWG (7 strands) 1.7 Ω/Mft	PVC .016 Nylon .005	None	Sun. Resistant PVC .047	.355	TC	--	Black

Color Code	
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Black

* Capacitance between conductors.

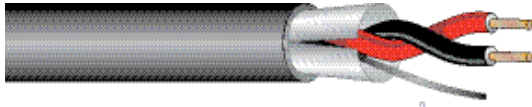
** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Orange rip cord under jacket

Process Control Cables

WEST PENN WIRE



Tray Cable/ Class 1 600V Multiple Conductor Overall Shield

Description:

- ASTM bare copper • PVC insulation with Nylon • PVC fillers and polyester binders as required • Twisted pair or cabled construction • Overall shield 100% coverage aluminum foil with tinned drain wire
- Overall Sunlight Resistant PVC jacket.

Applications:

- Industrial Signaling and Process Control Circuits
- Class 1 Circuits as defined in Article 725
- Optional Use: Non-Power limited Fire Alarm as defined in Article 760

Rating:

- NEC Type TC
- (UL) Listed
- Class 1 600 Volt
- Direct Burial

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
TC2975	1 Pair	18 AWG (7x26) 6.2 Ω/Mft	PVC .016 Nylon .005	Al. Foil 100%	Sun. Resistant PVC .047	.288	TC	--	Black
TC2977	4	18 AWG (7x26) 6.2 Ω/Mft	PVC .016 Nylon .005	Al. Foil 100%	Sun. Resistant PVC .047	.317	TC	--	Black
TC2991	1 Pair	16 AWG (7x24) 4.2 Ω/Mft	PVC .016 Nylon .005	Al. Foil 100%	Sun. Resistant PVC .047	.299	TC	--	Black
TC2993	4	16 AWG (7x24) 4.2 Ω/Mft	PVC .016 Nylon .005	Al. Foil 100%	Sun. Resistant PVC .047	.341	TC	--	Black
TC2995	1 Pair	14 AWG (7 strands) 2.7 Ω/Mft	PVC .016 Nylon .005	Al. Foil 100%	Sun. Resistant PVC .047	.336	TC	--	Black
TC2999	1 Pair	12 AWG (7 strands) 1.7 Ω/Mft	PVC .016 Nylon .005	Al. Foil 100%	Sun. Resistant PVC .047	.359	TC	--	Black

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

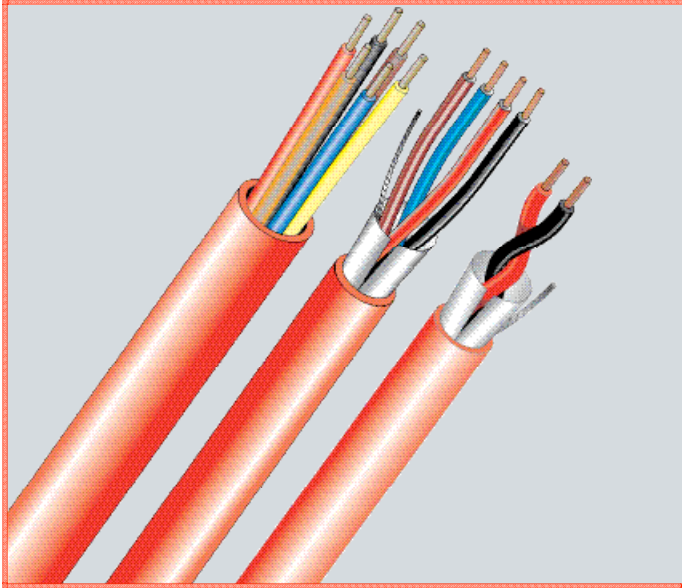
Color Code	
All Cables	1. Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Black

Special Notes:

- Orange rip cord under jacket

Fire Alarm Cables

WEST PENN WIRE



West Penn Wire is one of the original and leading manufactures of Fire Alarm cables in the world. Security and Alarm cables are a vital part of the building and construction industries. **West Penn Wire's** Security and Fire Alarm cables have been one of the most trusted names in the Security industry.

West Penn Wire offers the broadest line of fire alarm cables in the industry! Our fire alarm cables are designed to meet Conventional and Addressable system specifications. **West Penn Wire** also offers Circuit Integrity fire alarm cables.

For more detailed information on our fire alarm cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at: **sales@westpenn-wpw.com**. Information can also be found on our website: **www.westpenn-wpw.com**

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Circuit Integrity

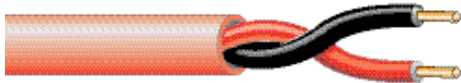
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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Fire Alarm Cables

WEST PENN WIRE



Fire Alarm Cables Power-Limited Multiple Conductor/ Unshielded

Description:

- ASTM bare copper • PVC insulation • Twisted pair or cabled construction • Overall PVC jacket

Rating:

- NEC Type FPLR
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R.	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
980	1 Pair	18 AWG Solid 6.5 Ω/Mft	PVC .010	None	PVC .015	.146	FPLR	29 pf/ft*	RD, BK, WH, YE
982	4	18 AWG Solid 6.5 Ω/Mft	PVC .010	None	PVC .015	.178	FPLR	29 pf/ft*	RD, BK, WH, YE
990	1 Pair	16 AWG Solid 4.1 Ω/Mft	PVC .010	None	PVC .015	.155	FPLR	32 pf/ft*	RD, BK, WH, YE
992	4	16 AWG Solid 4.1 Ω/Mft	PVC .010	None	PVC .015	.203	FPLR	32 pf/ft*	Red
994	1 Pair	14 AWG Solid 2.6 Ω/Mft	PVC .012	None	PVC .015	.195	FPLR	35 pf/ft*	RD, BK, BL, WH, YE
700	4	14 AWG Solid 2.6 Ω/Mft	PVC .012	None	PVC .015	.240	FPLR	35 pf/ft*	Red
998	1 Pair	12 AWG Solid 1.8 Ω/Mft	PVC .012	None	PVC .015	.225	FPLR	45 pf/ft*	Red
990S New	1 Pair	16 AWG Strd. 4.1 Ω/Mft	PVC .010	None	PVC .015	.155	FPLR	32 pf/ft*	Red
994S New	1 Pair	14 AWG Strd. 2.6 Ω/Mft	PVC .012	None	PVC .015	.195	FPLR	35 pf/ft*	Red
998S New	1 Pair	12 AWG Strd. 1.8 Ω/Mft	PVC .012	None	PVC .015	.225	FPLR	45 pf/ft*	Red

Special Notes:

- Selected Plenum Versions see pages 52
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 43.
- Orange rip cord under jacket

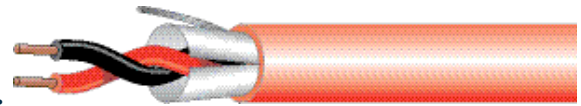
* Capacitance between conductors.

Color Code- See page 49

Fire Alarm Cables

WEST PENN WIRE

Fire Alarm Cables Power-Limited Multiple Conductor/ Shielded



Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • PVC insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil binders as required with TC drain wire
- Overall PVC jacket

Rating:

- NEC Type FPLR
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
1083	4	22 AWG Solid 17.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.146	FPLR	54 pf/ft* 97 pf/ft**	Red
975	1 Pair	18 AWG Solid 6.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.149	FPLR	73 pf/ft* 133 pf/ft**	Red
977	4	18 AWG Solid 6.5 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.182	FPLR	73 pf/ft* 133 pf/ft**	Red
991	1 Pair	16 AWG Solid 4.1 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.160	FPLR	82 pf/ft* 148 pf/ft**	RD, BK, WH, YE
993	4	16 AWG Solid 4.1 Ω/Mft	PVC .010	Al. Foil 100%	PVC .015	.207	FPLR	82 pf/ft* 148 pf/ft**	Red
995	1 Pair	14 AWG Solid 2.6 Ω/Mft	PVC .012	Al. Foil 100%	PVC .015	.201	FPLR	84 pf/ft* 151 pf/ft**	Red
999	1 Pair	12 AWG Solid 1.8 Ω/Mft	PVC .012	Al. Foil 100%	PVC .015	.230	FPLR	96 pf/ft* 173 pf/ft**	Red

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

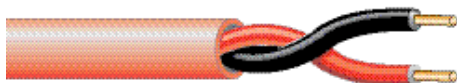
Color Code	
All Cables	1.Black, 2. Red, 3. Brown, 4. Blue
	JACKET: RD-Red, BK-Black, WH- White, YE-Yellow

Special Notes:

- Selected Plenum Versions see pages 53
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 44
- Orange rip cord under jacket

Fire Alarm Cables

WEST PENN WIRE



Power-Limited / Unshielded Addressable Systems/ Data Cable

Description:

- ASTM bare copper • Polyolefin insulation • Short overall twist lengths • Unshielded construction • Overall PVC jacket

Rating:

- NEC Type FPL
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Applications:

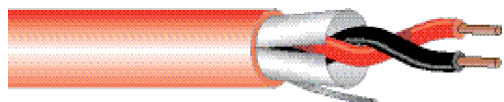
Indoor data cable for:

- Data Circuits
- Addressable Systems
- Initiating Circuits
- Notification Circuits

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D980	1 Pair	18 AWG Solid 6.5 Ω/Mft	Polyolefin .015	None	PVC .030	.182	FPL	16 pf/ft*	Red
D982	4	18 AWG Solid 6.5 Ω/Mft	Polyolefin .015	None	PVC .030	.230	FPL	16 pf/ft*	Red
D990	1 Pair	16 AWG Solid 4.1 Ω/Mft	Polyolefin .015	None	PVC .030	.223	FPL	18 pf/ft*	Red

* Capacitance between conductors.



Power-Limited / Shielded Addressable Systems/ Data Cable

Description:

- ASTM bare copper • Polyolefin insulation • Short overall twist length • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall PVC jacket

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D975	1 Pair	18 AWG Solid 6.5 Ω/Mft	Polyolefin .015	Al. Foil 100%	PVC .030	.210	FPL	25 pf/ft* 45 pf/ft**	Red
D991	1 Pair	16 AWG Solid 4.1 Ω/Mft	Polyolefin .015	Al. Foil 100%	PVC .030	.226	FPL	30 pf/ft* 54 pf/ft**	Red
D995	1 Pair	14 AWG Solid 2.6 Ω/Mft	Polyolefin .020	Al. Foil 100%	PVC .030	.262	FPL	30 pf/ft* 54 pf/ft**	Red

Color Code	
All Cables	1.Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Selected Plenum Versions see pages 53
- Orange rip cord under jacket

Fire Alarm Cables

WEST PENN WIRE

Fire Alarm Cables

Power-Limited One & Two Conductor/ Parallel

Description:

- ASTM bare copper • PVC insulation
- Two conductor parallel features- PERFECTSTRIPE®

Applications:

Indoor for:

- Power-Limited Protective Circuits

Rating:

- NEC Type FPL
- (UL) or (ETL)us Listed
- Flame Rating: UL1685

Single Conductor

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
962	1	14AWG Solid 2.6 Ω/Mft	PVC .020	None	--	.104	FPL	--	BK, GN, BN, WH, RD, OR, YE

Parallel Construction- Two Conductor

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
970	2	18 AWG Solid 6.5 Ω/Mft	PVC .032	None	--	.104x.204	FPL	--	RD, WH, OR, BN, BL, BK
971	2	16 AWG Solid 4.1 Ω/Mft	PVC .032	None	--	.115x.225	FPL	--	RD, WH, BK
972	2	14 AWG Solid 2.6 Ω/Mft	PVC .032	None	--	.128x.250	FPL	--	RD, WH, BK
974	2	12 AWG Solid 1.8 Ω/Mft	PVC .032	None	--	.146x.300	FPL	--	RD, BK

Colors	
Jacket Colors	RD-Red, BK-Black WH- White, YE-Yellow, OR-Orange, BN-Brown

Do you need Cable Accessories?

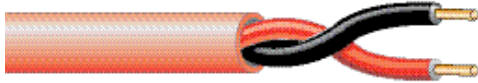
Do not forget that West Penn Wire offers a complete and comprehensive line of:

- Connectors
- Cable Assemblies
- Installation Kits
- Fiber Optic Accessories
- A/V Wall Plates



Fire Alarm Plenum Cables

WEST PENN WIRE



Fire Alarm Cables
Power-Limited/ Unshielded
Plenecon II® Extra Flexible

Description:

- ASTM bare copper • Polymer alloy insulation
- Twisted pair or cabled construction • Flexible plenum jacket

Rating:

- NEC Type FPLP
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
60980B	1 Pair	18 AWG Solid 6.5 Ω/Mft	.010	None	.015	.142	FPLP	29 pf/ft*	Red
60982B	4	18 AWG Solid 6.5 Ω/Mft	.010	None	.015	.175	FPLP	29 pf/ft*	Red
60991B	1 Pair	16 AWG Solid 4.1 Ω/Mft	.010	None	.015	.161	FPLP	32 pf/ft*	Red
60164B	4	16 AWG Solid 4.1 Ω/Mft	.010	None	.015	.220	FPLP	32 pf/ft*	Red
60993B	1 Pair	14 AWG Solid 2.6 Ω/Mft	.012	None	.015	.191	FPLP	35 pf/ft*	Red
60700B	4	14 AWG Solid 2.6 Ω/Mft	.012	None	.015	.252	FPLP	35 pf/ft*	Red
60995B	1 Pair	12 AWG Solid 1.8 Ω/Mft	.012	None	.015	.225	FPLP	45 pf/ft*	Red

* Capacitance between conductors.

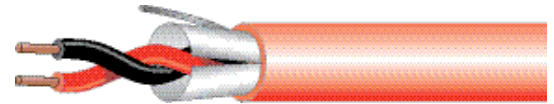
Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 192

Color Code	
All Cables	1.Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

Fire Alarm Plenum Cables

Fire Alarm Cables Power-Limited / Shielded Plenecon II® Extra Flexible



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • Polymer Alloy insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Flexible plenum jacket

Rating:

- NEC Type FPLP
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
60975B	1 Pair	18 AWG Solid 6.5 Ω/Mft	.010	Al. Foil 100%	.015	.148	FPLP	54 pf/ft* 97 pf/ft**	Red
60977B	4	18 AWG Solid 6.5 Ω/Mft	.010	Al. Foil 100%	.015	.178	FPLP	54 pf/ft* 97 pf/ft**	Red
60990B	1 Pair	16 AWG Solid 4.1 Ω/Mft	.010	Al. Foil 100%	.015	.166	FPLP	61 pf/ft* 110 pf/ft**	Red
603164B	4	16 AWG Solid 4.1 Ω/Mft	.010	Al. Foil 100%	.015	.210	FPLP	61 pf/ft* 110 pf/ft**	Red
60992B	1 Pair	14 AWG Solid 2.6 Ω/Mft	.012	Al. Foil 100%	.015	.198	FPLP	84 pf/ft* 151 pf/ft**	Red
60994B	1 Pair	12 AWG Solid 1.8 Ω/Mft	.012	Al. Foil 100%	.015	.224	FPLP	96 pf/ft* 173 pf/ft**	Red

DATA GRADE PLENUM

D60975 ^	1 Pair	18 AWG Solid 6.5 Ω/Mft	.012	Al. Foil 100%	.015	.165	FPLP	25 pf/ft* 45 pf/ft**	Red
D60990 ^	1 Pair	16 AWG Solid 4.1 Ω/Mft	.015	Al. Foil 100%	.015	.184	FPLP	30 pf/ft* 54 pf/ft**	Red

^ - Data grade versions for addressable systems contain Low Loss Insulation and Overall Flexible Plenum Jacket.

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

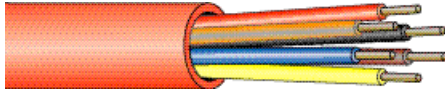
Color Code	
All Cables	1.Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

Special Notes:

- Plenum Installation Precautions see Technical Reference Section Page 192

Fire Alarm Cables

WEST PENN WIRE



Fire Alarm Cables Nonpower-Limited/ Unshielded

Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • PVC insulation with Nylon • Twisted pair or cabled construction • Overall PVC jacket

Rating:

- NEC Type NPLF
- (UL) or (ETL)us Listed
- Meets 150V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
1990	1 Pair	16 AWG Solid 4.1 Ω/Mft	PVC .016 Nylon .005	None	PVC .037	.252	NPLF	--	Red
1994	1 Pair	14 AWG Solid 2.6 Ω/Mft	PVC .016 Nylon .005	None	PVC .037	.278	NPLF	--	Red

Special Notes:

- Selected Plenum Versions see pages 56
- Orange rip cord under jacket

Color Code	
All Cables	1.Black, 2. Red
	JACKET: Red

Fire Alarm Cables

WEST PENN WIRE



Fire Alarm Cables NonPower-Limited/ Shielded

Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • PVC insulation with Nylon • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall PVC jacket

Rating:

- NEC Type NPLF
- (UL) or (ETL)us Listed
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
1975	1 Pair	18 AWG Solid 6.5 Ω/Mft	PVC Nylon .016 .005	Al. Foil 100%	PVC .037	.244	NPLF	52 pf/ft* 94 pf/ft**	Red
1991	1 Pair	16 AWG Solid 4.1 Ω/Mft	PVC Nylon .016 .005	Al. Foil 100%	PVC .037	.264	NPLF	57 pf/ft* 103 pf/ft**	Red
1995	1 Pair	14 AWG Solid 2.6 Ω/Mft	PVC Nylon .016 .005	Al. Foil 100%	PVC .037	.284	NPLF	64 pf/ft* 115 pf/ft**	Red
1997	4	14 AWG Solid 2.6 Ω/Mft	PVC Nylon .016 .005	Al. Foil 100%	PVC .042	.388	NPLF	64 pf/ft* 115 pf/ft**	Red
1999	1 Pair	12 AWG Solid 1.8 Ω/Mft	PVC Nylon .016 .005	Al. Foil 100%	PVC .042	.328	NPLF	73 pf/ft* 131 pf/ft**	Red

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

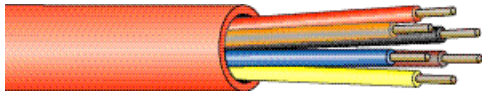
Color Code	
All Cables	1.Black, 2. Red, 3. Brown, 4. Blue
	JACKET: Red

Special Notes:

- Selected Plenum Versions see pages 56
- Orange rip cord under jacket

Fire Alarm Plenum Cables

WEST PENN WIRE



Fire Alarm Cables Nonpower-Limited/ Shielded & Unshielded Plenum

Description:

- ASTM bare copper • Fluoropolymer insulation • Twisted pair or cabled construction • Unshielded and Shielded Versions (Shielded versions) 100% coverage of aluminum polyester foil with TC drain wire
- Overall fluoropolymer jacket

Rating:

- NEC Type NPLFP
- (UL) or (ETL)us Listed
- Meets 150V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard pool size 1000ft.

Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
251980†	1 Pair	18 AWG Solid 6.5 Ω/Mft	Fluoro-polymer .020	None	.010	.185	NPLFP	--	Red
251975	1 Pair	18 AWG Solid 6.5 Ω/Mft	Fluoro-polymer .020	Al. Foil 100%	.010	.195	NPLFP	--	Red
251991	1 Pair	16 AWG Solid 4.1 Ω/Mft	Fluoro-polymer .020	Al. Foil 100%	.010	.214	NPLFP	--	Red
251994†	1 Pair	14 AWG Solid 2.6 Ω/Mft	Fluoro-polymer .020	None	.010	.210	NPLFP	--	Red
251995	1 Pair	14 AWG Solid 2.6 Ω/Mft	Fluoro-polymer .020	Al. Foil 100%	.010	.220	NPLFP	--	Red

Special Notes:

† Unshielded version

- Plenum Installation Precautions see Technical Reference Section Page 192

Color Code	
All Cables	1.Black, 2. Red
	JACKET: Red

Fire Alarm Cables

Circuit Integrity in Conduit/ Shielded (CIC) - Riser Rated



Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall FRPE Low-Smoke, Non-Halogen Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL1666, UL2196 - 2 Hour Flame Test (in conduit only)

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R.	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
5200FZ	2	16 AWG 7x24 4.0 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.37	FPLR	22pf/ft*	Red
5220FZ	2	16 AWG Solid 4.0 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.36	FPLR	20pf/ft*	Red
5222FZ	4	16 AWG Solid 4.0 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.41	FPLR	16pf/ft*	Red
5100FZ	2	14 AWG 7x22 2.5 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.41	FPLR	26pf/ft*	Red
5120FZ	2	14 AWG Solid 2.5 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.38	FPLR	23pf/ft*	Red
5000FZ	2	12 AWG 7x20 1.6 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.44	FPLR	27pf/ft*	Red

* Capacitance between conductors.

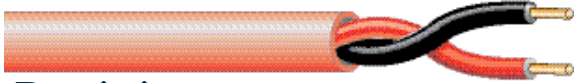
Color Code	
All Cables	Black, Red- 4 or more are Black and numbered
	JACKET: Red

Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene

Fire Alarm Cables

WEST PENN WIRE



Circuit Integrity in Conduit/ Unshielded Riser Rated - (CIC)

Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall FRPE Low-Smoke, Non-Halogen Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL 1666, UL2196 - Two Hour Flame Test (in conduit only)

Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
5200UZ	2	16 AWG 7x24 4.0 Ω/Mft	CSR .035	None	FRPE .056	.37	FPLR	16pf/ft*	Red
5220UZ	2	16 AWG Solid 4.0 Ω/Mft	CSR .035	None	FRPE .056	.35	FPLR	15pf/ft*	Red
5100UZ	2	14 AWG 7x22 2.5 Ω/Mft	CSR .035	None	FRPE .056	.40	FPLR	18pf/ft*	Red
5120UZ	2	14 AWG Solid 2.5 Ω/Mft	CSR .035	None	FRPE .056	.38	FPLR	17pf/ft*	Red

* Capacitance between conductors.

Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene

Color Code	
All Cables	Black, Red
	JACKET: Red

Fire Alarm Cables

Circuit Integrity/ Shielded (CI) - Riser Rated



Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall FRPE Low-Smoke, Non Halogen Jacket

Rating:

- NEC Type FPLR-CI
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL1666, UL2196 - 2 Hour Flame Test

Standard spool size 1000ft.

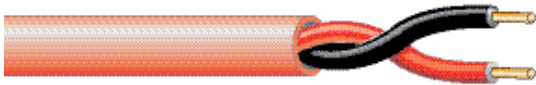
Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
5320FM	2	18 AWG Solid 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.31	FPLR-CI	27pf/ft*	Red
5322FM	4	18 AWG Solid 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.36	FPLR-CI	27pf/ft*	Red
5300FM	2	18 AWG 7x26 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.32	FPLR-CI	27pf/ft*	Red
5302FM	4	18 AWG 7x26 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.37	FPLR-CI	27pf/ft*	Red
5220FM	2	16 AWG Solid 4.0 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.33	FPLR-CI	31pf/ft*	Red
5222FM	4	16 AWG Solid 4.0 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.38	FPLR-CI	31pf/ft*	Red
5200FM	2	16 AWG 7x24 4.0 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.35	FPLR-CI	31pf/ft*	Red
5120FM	2	14 AWG Solid 2.5 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.36	FPLR-CI	33pf/ft*	Red
5122FM	4	14 AWG Solid 2.5 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.41	FPLR-CI	33pf/ft*	Red
5100FM	2	14 AWG 7x22 2.5 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.38	FPLR-CI	33pf/ft*	Red
5020FM	2	12 AWG Solid 1.6 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.39	FPLR-CI	37pf/ft*	Red
5022FM	4	12 AWG Solid 1.6 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.46	FPLR-CI	37pf/ft*	Red

Notes: Color Code Pg. 60

* Capacitance between conductors.

Fire Alarm Cables

WEST PENN WIRE



Circuit Integrity / Unshielded Riser Rated - (CI)

Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR)
Insulation • Twisted pair or cabled construction
- Overall FRPE Low-Smoke, Non-Halogen Jacket

Rating:

- NEC Type FPLR-CI
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL 1666, UL2196- Two Hour Flame Test

Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

Standard pool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
5320UM	2	18 AWG Solid 5.9 Ω/Mft	CSR .034	None	FRPE .045	.31	FPLR-CI	17pf/ft*	Red
5322UM	4	18 AWG Solid 5.9 Ω/Mft	CSR .034	None	FRPE .045	.35	FPLR-CI	17pf/ft*	Red
5220UM	2	16 AWG Solid 4.0 Ω/Mft	CSR .034	None	FRPE .045	.33	FPLR-CI	19pf/ft*	Red
5222UM	4	16 AWG Solid 4.0 Ω/Mft	CSR .034	None	FRPE .045	.38	FPLR-CI	19pf/ft*	Red
5120UM	2	14 AWG Solid 2.5 Ω/Mft	CSR .034	None	FRPE .045	.36	FPLR-CI	21pf/ft*	Red
5122UM	4	14 AWG Solid 2.5 Ω/Mft	CSR .034	None	FRPE .045	.41	FPLR-CI	21pf/ft*	Red
5020UM	2	12 AWG Solid 1.6 Ω/Mft	CSR .034	None	FRPE .045	.39	FPLR-CI	23pf/ft*	Red
5022UM	4	12 AWG Solid 1.6 Ω/Mft	CSR .034	None	FRPE .045	.45	FPLR-CI	23pf/ft*	Red

* Capacitance between conductors.

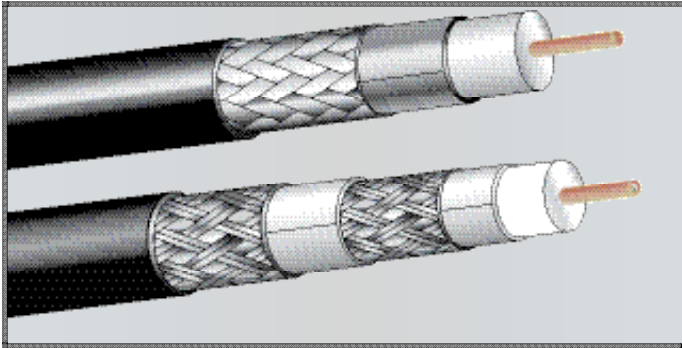
Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene

Color Code	
All Cables	Black, Red- 4 or more are Black and numbered
	JACKET: Red

Coaxial Cables

WEST PENN WIRE



West Penn Wire is one of the leading manufacturers of Coaxial cables in the world. Our innovative lines of coaxial cables include Community Antenna Television (CATV), Master Antenna Television (MATV), Closed Circuit Television (CCTV), Pro-Video System Cables, SDI- Digital Cables, Broadcast System Cables, and RF Coaxial Cables.

For more detailed information on our Coaxial cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at **sales@westpenn-wpw.com**. Information can also be found on our website- **www.westpenn-wpw.com**

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Video over UTP - V/Cat

Video Over UTP	75
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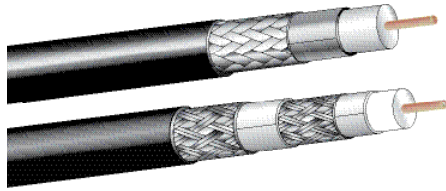
Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Coaxial Cables

WEST PENN WIRE

CATV/MATV
RG6/U Type

Applications:
• CATV / MATV



Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type	Nom. O.D.	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
			Inches	Inches		Inches				
841	CATV CL2	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE†	Bifoil* 100% + Alum. Braid 65%	PVC	.254	16.2 pf/ft	82%	75Ω	Black, White
			.180							
6100	CATV	18 AWG (Solid) CCS 28.0 Ω/M'	Gas Injected PE†	Bifoil* 100% + Alum. Braid 61%	PVC	.254	16.2 pf/ft	82%	75Ω	Black, White
			.180							

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		5 MHz	55 MHz	100 MHz	270 MHz	400 MHz	550 MHz	750 MHz	1 GHz	1.45 GHz	1.8 GHz	2.25 GHz	3 GHz
Non-Plenum RG6/U Gas Injected PE	>23dB >21dB	.57	1.45	1.85	3.07	3.85	4.62	5.40	6.3	8.05	8.85	9.99	11.9

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

100% Sweep Tested, 0.3MHz to 3GHz

Coaxial Cables

CATV/MATV RG6/U Type

Applications:

- CATV / MATV



Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
AQC841 Aquaseal	CM CL2	18 AWG (Solid) BC 6.5 Ω /M'	Gas Injected PE† .180	Bifoil* 100% + Al. Braid 65%	Sunlight Resistant PVC	.275	16.2 pf/ft	82%	75 Ω	Black
						Connectors "F" Type- CN-F56AQ "F" Compression - CN-FSNS-6				
6140 Flooded Burial	--	18 AWG (Solid) CCS 28.0 Ω /M'	Gas Injected PE† .180	Bonded Bifoil*100% Al. Braid 61% Flooding	Sunlight Resistant PE	.275	16.2 pf/ft	82%	75 Ω	Black
						Connectors "F" Type- CN-F56AQ "F" Compression - CN-FSNS-6				
6150 Dual	CATV	18 AWG (Solid) CCS 28.0 Ω /M'	Gas Injected PE† .180	Bonded Bifoil*100% Al. Braid 61%	PVC	.275 x .595	16.2 pf/ft	82%	75 Ω	Black
						Connectors "F" Type- CN-F56ALM "F" Compression - CN-FSNS-6				
6500 Dual Quad-Shield	CATV	18 AWG (Solid) CCS 28.0 Ω /M'	Gas Injected PE† .180	Quad-Shield Bifoil* Al. Braid 60% Bifoil* Al. Braid 40%	PVC	.305 x .620	16.2 pf/ft	82%	75 Ω	Black
						Connectors "F" Type- CN-F56ALX "F" Compression - CN-FSNSQS-6				

Electrical Specifications

See Page 62

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

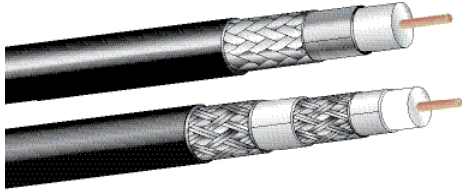
100% Sweep Tested, 0.3MHz to 3GHz

Coaxial Cables

WEST PENN WIRE

CATV/MATV
RG6/U Type

Applications:
• CATV / MATV



Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D.	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
						Inches				
HQ841 Quad-Shield	CATV	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE† .180	Bifoil* +Al. Braid + Bifoil* + Al. Braid	PVC	.285	16.2 pf/ft	82%	75Ω	Black, White
HQ841R Quad-Shield	CATVR	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE† .180	Bifoil* +Al. Braid + Bifoil* + Al. Braid	PVC	.285	16.2 pf/ft	82%	75Ω	Black
Q841 Quad-Shield	CATV CL2	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE† .180	Bifoil* +Al. Braid 65% + Bifoil* + Al. Braid 55%	PVC	.283	16.2 pf/ft	82%	75Ω	Black
6300 Quad-Shield	CATV	18 AWG (Solid) CCS 28.0 Ω/M'	Gas Injected PE† .180	Bonded Bifoil* +Al. Braid 60% + Bifoil* + Al. Braid 40%	PVC	.295	16.2 pf/ft	82%	75Ω	Black, White
6310 Quad-Shield Outdoor	-	18 AWG (Solid) CCS 28.0 Ω/M'	Gas Injected PE† .180	Bonded Bifoil* +Al. Braid 60% + Bifoil* + Al. Braid 40%	Sunlight Resistant PE	.295	16.2 pf/ft	82%	75Ω	Black

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		5 MHz	55 MHz	100 MHz	270 MHz	400 MHz	550 MHz	750 MHz	1 GHz	1.45 GHz	1.8 GHz	2.25 GHz	3 GHz
Non-Plenum RG6/U Gas Injected PE	>23dB >21dB	.57	1.45	1.85	3.07	3.85	4.62	5.40	6.3	8.05	8.85	9.99	11.9

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

100% Sween Tested. 0.3MHz to 3GHz

Coaxial Cables

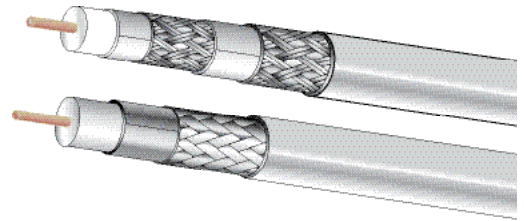
CATV/MATV

RG59/U & RG6/U Type Plenecon® PLENUM Cables

WEST PENN WIRE

Applications:

- CATV / MATV - Plenum



Standard spool size 1000ft.

RG59/U Plenum

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
25843	CATVP CL2P	20 AWG (Solid) BC 10.1 Ω/M'	Foam FEP .138	Bifoil* + Alum. Braid 90%	Flex. Plenum	.210	16.2 pf/ft	82%	75Ω	Ivory
						Connectors "F" Type- CN-F59TFE/WP				
25Q843	CATVP CL2P	20 AWG (Solid) BC 10.1 Ω/M'	Foam FEP .138	Bifoil* +Al. Braid 65% + Al. Braid 55%	Flex. Plenum	.240	16.2 pf/ft	82%	75Ω	Ivory
						Connectors "F" Type- CN-F59ALX				

RG6/U Plenum

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
25841	CATVP CL2P	18 AWG (Solid) BC 6.5 Ω/M'	Foam FEP .170	Bifoil* 100 + Alum. Braid 90%	Flex. Plenum	.244	16.2 pf/ft	82%	75Ω	Ivory
						Connectors "F" Type- CN-F56TFE "F" Compression - CN-CSF-6				
25Q841	CATVP CL2P	18 AWG (Solid) BC 6.5 Ω/M'	Foam FEP .170	Bifoil* +Al. Braid 65% + Al. Braid 55%	Flex. Plenum	.273	16.2 pf/ft	82%	75Ω	Ivory
						Connectors "F" Type- CN-F56ALM "F" Compression - CN-CSF-6				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		5 MHz	55 MHz	100 MHz	270 MHz	400 MHz	550 MHz	750 MHz	1 GHz	1.45 GHz	2 GHz	2.25 GHz	3 GHz
Plenum RG59/U Foam FEP	>23dB >21dB	.55	1.9	2.5	3.4	5.3	5.8	7.9	9.2	11.7	14.2	15.06	17.39
Plenum RG6/U Foam FEP	>23dB >21dB	.45	1.6	2.0	2.9	4.5	4.9	6.6	8.0	10.3	12.6	13.36	15.42

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

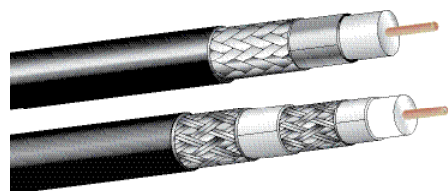
FEP- Teflon® Trademark of Dupont

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

100% Sweep Tested, 0.3MHz to 3GHz

Coaxial Cables

WEST PENN WIRE



CATV/MATV
RG11/U Type

Applications:
• CATV / MATV

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
1100	CATV CL2	14 AWG (Solid) CCS 11.0 Ω/M'	Gas Injected PE† .280	Bonded Bifoil* +Al. Braid 61%	PVC	.405	16.2 pf/ft	82%	75Ω	Black
						Connectors "F" Type- CN-F11ALX "F" Compression - CN-FSNS-11				
821	CATV CL2	14 AWG (Solid) BC 2.6 Ω/M'	Gas Injected PE† .280	Bifoil* + Al. Braid 65%	PVC	.380	16.2 pf/ft	82%	75Ω	Black
						Connectors "F" Type- CN-F11ALX "F" Compression - CN-FSNS-11				
1110 Flooded Burial	--	14 AWG (Solid) CCS 11.0 Ω/M'	Gas Injected PE† .280	Bonded Bifoil* +Al. Braid 61% Flooding	Sunlight Resistant PE	.405	16.2 pf/ft	82%	75Ω	Black
						Connectors "F" Type- CN-F11ALX "F" Compression - CN-FSNS-11				
Q821 Quad-Shield	CATV CL2	14 AWG (Solid) BC 2.6 Ω/M'	Gas Injected PE† .280	Bifoil* +Al. Braid 65% + Bifoil* + Al. Braid 55%	PVC	.415	16.2 pf/ft	82%	75Ω	Black
						Connectors "F" Type- CN-F11ALX "F" Compression - NA				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		5 MHz	55 MHz	100 MHz	270 MHz	400 MHz	550 MHz	750 MHz	1 GHz	1.45 GHz	1.8 GHz	2.25 GHz	3 GHz
Non-Plenum RG11/U Gas Injected PE	>23dB >21dB	.38	.92	1.20	1.92	2.40	2.85	3.40	4.05	5.05	5.90	6.42	7.76

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

100% Sweep Tested, 0.3MHz to 3GHz

Coaxial Cables

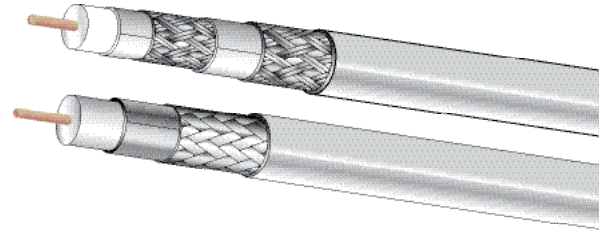
CATV/MATV

RG11/U Type Plenecon® PLENUM Cables

WEST PENN WIRE

Applications:

- CATV / MATV - Plenum



Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
25821	CATVP CL2P	14 AWG (Solid) BC 2.6 Ω/M'	Foam FEP .280	Bifoil* + Alum. Braid 65%	Copolymer	.352	16 pf/ft	82%	75Ω	Natural
Connectors										
						"F" Type- CN-F11TFE				
						"F" Compression - NA				
25Q821	CATVP CL2P Quad- Shield	14 AWG (Solid) BC 2.6 Ω/M'	Foam FEP .280	Bifoil* +Al. Braid 60% + Bifoil* +Al. Braid 40%	Copolymer	.385	16 pf/ft	82%	75Ω	Natural
Connectors										
						"F" Type- CN-F11TFE				
						"F" Compression - NA				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		5 MHz	55 MHz	100 MHz	270 MHz	400 MHz	550 MHz	750 MHz	1 GHz	1.45 GHz	2 GHz	2.25 GHz	3 GHz
Plenum RG11/U Foam FEP	>23dB >21dB	.25	1.0	1.5	2.0	2.98	3.5	4.9	5.5	6.0	7.5	7.95	9.19

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

FEP- Teflon® Trademark of Dupont

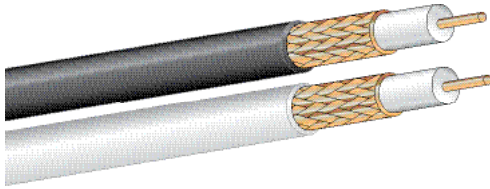
*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

100% Sweep Tested, 0.3MHz to 3GHz

Coaxial Cables

WEST PENN WIRE

CCTV/ Security Video
Minimax Miniature



Applications:

- CCTV
- Security Baseband Video

Standard pool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type	Nom. O.D.	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Colors
			Inches			Inches				
825	CM CL2	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE† .085	Bare Copper Braid 95%	PVC	.146	16.2 pf/ft	82%	75Ω	Colors See Below
25825	CMP CL2P	25 AWG (Solid) BC 30Ω/M'	Foam FEP .078	Bare Copper Braid 95%	Flex Plenum	.146	16.2 pf/ft	82%	75Ω	Colors See Below
45825	CM	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE† .085	Bare Copper Braid 95%	PVC	.146 x .302	16.2 pf/ft	82%	75Ω	Black, White
						Connectors 75Ω 3 Pc. BNC - CN-BM74-18 75Ω Compression BNC - CN-CSBNC-25				

Jacket Colors for 825 and 25825
• Black • Red • Green • Blue • White • Yellow

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)								
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
MiniMax Non-Plenum Gas Injected PE	>23dB	.5	1.8	3.12	4.19	5.79	8.59	11.14	13.22	14.41
MiniMax Plenum Foam FEP	>23dB	.5	1.8	3.12	4.40	6.41	9.66	12.61	14.95	16.18

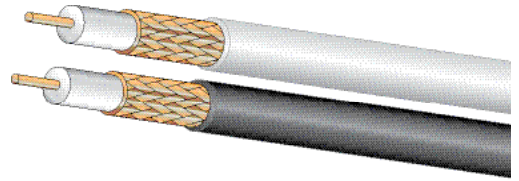
Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
†- Gas Injected Polyethylene
100% Sween Tested

Coaxial Cables

CCTV/ Security Video

RG59/U Type



Applications:

- CCTV
- Security Baseband Video

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color	Connectors	
											75Ω 3 Pc. BNC - CN-BM73-2	75Ω Compression BNC - CN-CSBNC-59
815	CM	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .142	Bare Copper Braid 95%	PVC	.232	16.2 pf/ft	82%	75Ω	Black, White	Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59	
815R	CMR	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† with Tape Barrier .142	Bare Copper Braid 95%	PVC	.232	16.2 pf/ft	82%	75Ω	Black, White	Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59	
815E	CM	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .142	Copper Alloy 95%	PVC	.232	16.2 pf/ft	82%	75Ω	Black	Connectors 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59	
AQC815 Aquaseal® Indoor/ Outdoor	CM CL2	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .142	Bare Copper Braid 95% Aquaseal Tape	Sunlight Resistant PVC	.242	16.2 pf/ft	82%	75Ω	Black	Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59	
5990 Flooded Burial	--	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .142	Bare Copper Braid 95%	Sunlight Resistant PE	.232	16.2 pf/ft	82%	75Ω	Black	Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59	
4815 Direct Burial	--	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .142	Bare Copper Braid 95%	Inner Jkt. PVC Outer Jkt. PE	.242 .292	16.2 pf/ft	82%	75Ω	Black	Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59	

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)								
		1 MHz	10 MHz	50 MHz	150 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
RG59/U	>23dB	.29	.68	1.8	3.0	3.54	4.71	6.40	7.33	7.80
815E	>23dB	.45	.9	1.9	3.2	4.0	4.9	8.6	9.8	10.70

Notes:

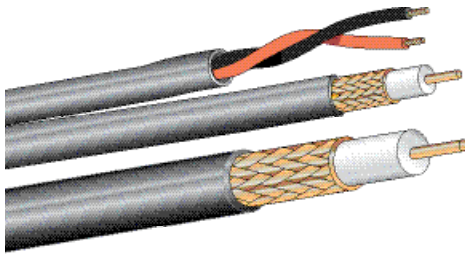
Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

Coaxial Cables

WEST PENN WIRE

CCTV/ Security Video
RG59/U Type



Applications:

- CCTV
- Security Baseband Video

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
2815B	CM	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .138	Bare Copper Braid 95%	PVC	.207 x .465	16.2 pf/ft	82%	75Ω	Black
Siamese Construction This cable contains 1 coax unit plus 1 pair 18 Awg.(7x26) Unshielded						Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59				
A2815	CM	20 AWG (Solid) BC 10.1 Ω/M'	Gas Injected PE† .142	Bare Copper Braid 95%	PVC	.232 x .420	16.2 pf/ft	82%	75Ω	Black
Siamese Parallel Construction This cable contains 1 coax unit plus 2 Cond. 18 Awg.(7x26) Unshielded Web Construction						Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)								
		1 mHz	10 MHz	50 MHz	150 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
RG59/U	>23dB	.29	.68	1.8	3.0	3.54	4.71	6.40	7.33	7.80

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

100% Sweep Tested

Coaxial Cables

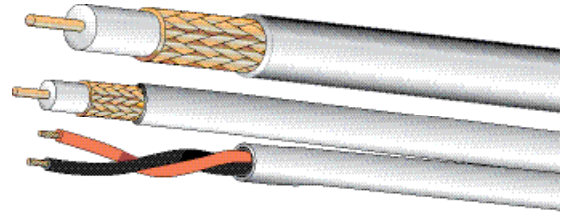
WEST PENN WIRE

CCTV/ Security Video

RG59/U Type Plenecon® PLENUM Cables

Applications:

- CCTV
- Security Baseband Video



Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color		
25815	CMP	20 AWG (Solid) BC 10.1 Ω/M'	Foam FEP .138	Bare Copper Braid 95%	Flex. Plenum	.207	16.2 pf/ft	82%	75Ω	Ivory	Connectors	
											75Ω 3 Pc. BNC - CN-BM73-30 75Ω Compression BNC - CN-CSBNC-59	
252815	CMP	20 AWG (Solid) BC 10.1 Ω/M'	Foam FEP .138	Bare Copper Braid 95%	Flex. Plenum	.207 x .465	16.2 pf/ft	82%	75Ω	Ivory	Siamese Construction This cable contains 1 coax unit plus 1 pair 18 Awg.(7x26) Unshielded Fluoropolymer	
											Connectors 75Ω 3 Pc. BNC - CN-BM73-30 75Ω Compression BNC - CN-CSBNC-59	

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)									
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz	
Plenum RG59/U	>23dB	.30	.68	1.80	2.52	3.91	5.30	7.24	8.29	8.76	

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

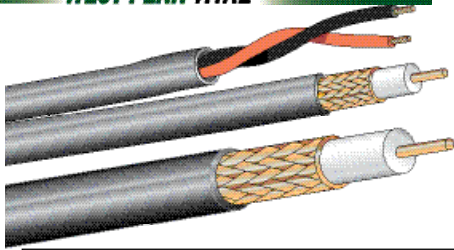
†- Gas Injected Polyethylene

100% Sweep Tested

Coaxial Cables

WEST PENN WIRE

CCTV/ Security Video
RG6/U Type



Applications:

- CCTV
- Security Baseband Video

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
806	CM	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE † .180	Bare Copper Braid 95%	PVC	.270	16.2 pf/ft	82%	75Ω	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6				
806R NEW	CMR	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE †with Tape Barrier .180	Bare Copper Braid 95%	PVC	.270	16.2 pf/ft	82%	75Ω	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6				
2806B	CM	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE † .180	Bare Copper Braid 95%	PVC	.280 x .580	16.2 pf/ft	82%	75Ω	Black
Siamese Construction This cable contains 1 coax unit plus 1 pair 16 Awg. Stranded Unshielded						Connectors 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6				
AQC806 Aquaseal Indoor/ Outdoor	CM CL2	18 AWG (Solid) BC 6.5 Ω/M''	Gas Injected PE † .180	Bare Copper Braid 95% Aquaseal Tape	Sunlight Resistant PVC	.280	16.2 pf/ft	82%	75Ω	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6				
AQC2806 Aquaseal	CM CL2	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE † .180	B.C Braid 95% Aquaseal Tape	Sunlight Resistant PVC	.280 x .580	16.2 pf/ft	82%	75Ω	Black
Siamese Construction This cable contains 1 coax unit plus 1 pair 16 Awg. Stranded Unshielded Aquaseal Tape						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)								
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
RG6/U Non-Plenum	>23dB	.24	.52	1.18	1.83	2.73	3.95	5.38	6.13	6.45

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
† Gas Injected Polyethylene
100% Sweep Tested

Coaxial Cables

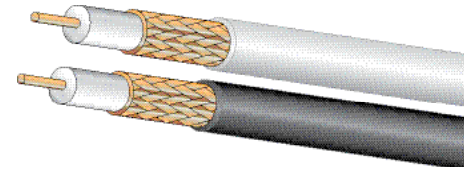
WEST PENN WIRE

CCTV/ Security Video

RG6/U Type Plenecon® PLENUM Cables

Applications:

- CCTV
- Security Baseband Video



Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
25806	CMP	18 AWG (Solid) BC 6.5 Ω/M'	Foam FEP .170"	Bare Copper Braid 95%	Flex. Plenum	.236"	16.2 pf/ft	82%	75Ω	Ivory
Connectors 75Ω 3 Pc. BNC - CN-BM73-4 75Ω Compression BNC - --										

Electrical Specifications

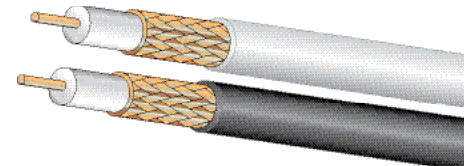
Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)								
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
Plenum RG6/U	>23dB	.24	.52	1.18	1.93	3.02	4.45	6.09	6.93	7.24

CCTV/ Security Video

RG6/U Type Outdoor- Burial

Applications:

- CCTV
- Security Baseband Video



Direct Burial RG6/U Cables

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
4806 Direct Burial	--	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE† .180	Bare Copper Braid 95%	Inner Jkt. PVC Outer Jkt. PE	.280 .330	16.2 pf/ft	82%	75Ω	Black
Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6										
6325 Flooded Burial	--	18 AWG (Solid) BC 6.5 Ω/M'	Gas Injected PE† .180	Bare Copper Braid 95%	Sunlight Resistant PE	.270	16.2 pf/ft	82%	75Ω	Black
Connectors 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6										

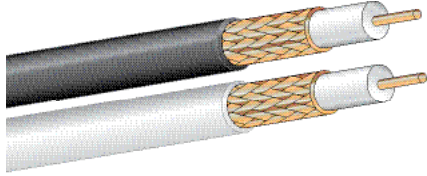
Electrical Specifications- See Page 72

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
100% Sweep Tested

Coaxial Cables

WEST PENN WIRE



CCTV/ Security Video RG11/U Type Non-Plenum & Plenum

Applications:

- CCTV
- Security Baseband Video

Non-Plenum

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
811	CL2	14 AWG (Solid) BC 2.6 Ω/M'	Gas Injected PE† .280	Bare Copper Braid 95%	PVC	.405	16.2 pf/ft	82%	75Ω	Black
						Connectors 3 Pc. BNC - CN-BM53-26 75Ω Compression BNC - CN-CSBNC-11				
4811 Direct Burial	--	14 AWG (Solid) BC 2.6 Ω/M'	Gas Injected PE† .280	Bare Copper Braid 95%	Inner Jkt. PVC Outer Jkt. PE	.405 .455	16.2 pf/ft	82%	75Ω	Black
						Connectors 3 Pc. BNC - CN-BM53-26 75Ω Compression BNC - CN-CSBNC-11				
1130 Flooded Burial	--	14 AWG (Solid) BC 2.6 Ω/M'	Gas Injected PE† .280	Bare Copper Braid 95%	Sunlight Resistant PE	.405	16.2 pf/ft	82%	75Ω	Black
						Connectors 3 Pc. BNC - CN-BM53-26 75Ω Compression BNC - CN-CSBNC-11				

Plenum

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
25811 Plenum	CL2P	14 AWG (Solid) BC 2.6 Ω/M'	Foam FEP .280	Bare Copper Braid 95%	Copolymer	.352	16 pf/ft	82%	75Ω	Natural
						Connectors 75Ω 3 Pc. BNC - NA 75Ω Compression BNC - NA				

Electrical Specifications

Catalog No.	Return Loss 100kHz-1GHz	Attenuation (db/100ft)								
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
RG11/U Non-Plenum	>23dB	.16	.35	.87	1.38	1.98	2.95	4.00	4.54	4.77
RG11/U Plenum	>23dB	.16	.35	.87	1.44	2.19	3.32	4.53	5.14	5.35

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

† Gas Injected Polyethylene

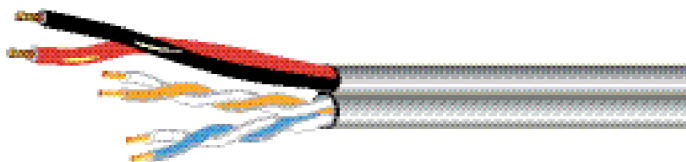
100% Sweep Tested

Coaxial Cables

WEST PENN WIRE

V-Cat- Video Over UTP Cables

2 Pair + 2 Conductors - Siamese Construction
Non-Plenum and Plenum



Applications:

- Video Over UTP

Standard spool size 1000ft.

Catalog No.	NEC Type	Cable Type & Description	Dielectric Type	Jacket Type	Nom. O.D.	Nom. Capacitance 2 Pair	Nom. VP 2 Pr.	Nom. Imp.Ω 2 Pair	Jacket Color
					Inches				
CC2418	CM	2 Pair 24 Awg Solid Category 5E Type UTP + 2 Cond. 18 Awg unshielded	Thermo-Plastic	PVC	.180 x .340	14 pf/ft	66%	100Ω	Gray
CC252418 Plenum	CMP	2 Pair 24 Awg Solid Category 5E Type UTP + 2 Cond. 18 Awg Unshielded	Plenum Thermo-Plastic	Plenum PVC	.185 x .345	14 pf/ft	66%	100Ω	Gray
CC2416	CM	2 Pair 24 Awg Solid Category 5E Type UTP + 2 Cond. 16 Awg Unshielded	Thermo-Plastic	PVC	.192 x .355	14 pf/ft	66%	100Ω	Gray
CC252416 Plenum	CMP	2 Pair 24 Awg Solid Category 5E Type UTP + 2 Cond. 16 Awg Unshielded	Plenum Thermo-Plastic	Plenum PVC	.190 x .350	14 pf/ft	66%	100Ω	Gray

Applications:

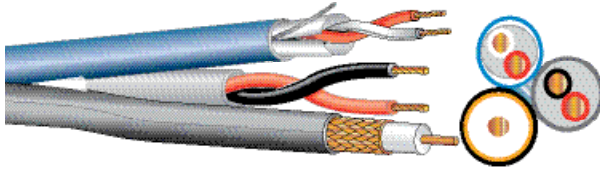
- Pair 1 - Category 5E type 100Ω - Used for Video Transmission
- Pair 2- Category 5E type 100Ω - Used for Video Transmission or Data Transmission, such as RS-422 or RS-485 or PTZ (Pan, Tilt, Zoom Controls)
- Two Conductors- 18 or 16 Awg. Solid bare copper conductors- Used for Power to the camera

Coaxial Cables

WEST PENN WIRE

PTZ Security Video

Minimax & RG59/U Type Composite PTZ (Pan Tilt Zoom)



Applications:

- CCTV/ Data/ Power
- Security Baseband Video

Standard spool size 1000ft.

Catalog No.	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
PTZ825	CCTV Coaxial Minimax	25 AWG (Solid) BC 30 Ω/M'	Gas Inj. PE† .085	Bare Copper Braid 95%	PVC	.146	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 22 AWG (7x30) TC	PP† Insulation .008	Al. Foil 100% with drain wire	PVC	.135	34 pf/ft* 67 pf/ft**	67%	55Ω	Blue
CM	Power Control Cable	1 Pair 18 AWG (7x26) BC	PVC .010	None	PVC	.155	--	--	--	Gray

PTZ825 - Nom. O.D. .375"

Catalog No.	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
PTZ815	CCTV Coaxial RG59/U	20 AWG (Solid) BC 10.1 Ω/M'	Gas Inj. PE† .142	Bare Copper Braid 95%	PVC	.232	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 18 AWG (7x26) TC	PE† Insulation .018	Al. Foil 100% with drain wire	PVC	.222	24 pf/ft* 44 pf/ft**	66%	50Ω	Blue
CM	Power Control Cable	1 Pair 18 AWG (7x26) BC	PVC .010	None	PVC	.155	--	--	--	Gray

PTZ815 - Nom. O.D. .451"

Cable Types	Conductor Colors	Jacket Colors
CCTV Coaxial	--	Black
PTZ825 Data Control Cable	1.Black, 2. Red	Blue
PTZ815 Data Control Cable	1.Black, 2. Clear	Blue
Power Control Cable	1.Black, 2. Red	Gray

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

100% Sweep Tested

PE- Polyethylene

PP- Polypropylene



Coaxial Cables

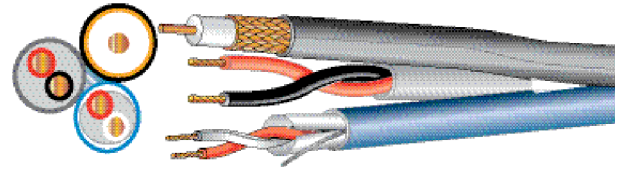
PTZ Security Video

Minimax & RG59/U Type Composite PTZ (Pan Tilt Zoom) Plenum

WEST PENN WIRE

Applications:

- CCTV/ Data/ Power
- Security Baseband Video



Standard spool size 1000ft.

Catalog No.	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
PTZ25825	CCTV Coaxial Minimax	25 AWG (Solid) BC 30 Ω/M	Foam FEP .078	Bare Copper Braid 95%	Plenum PVC	.146	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 22 AWG (7x30) TC	FEP .010	Al. Foil 100% with drain wire	Plenum PVC	.120	25 pf/ft* 45 pf/ft**	69%	55Ω	Blue
CMP	Power Control Cable	1 Pair 18 AWG (7x26) BC	Plenum PVC .010	None	Plenum PVC	.138	--	--	--	Gray

PTZ25825 - Nom. O.D. .342"

Catalog No.	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
PTZ25815	CCTV Coaxial RG59/U	20 AWG (Solid) BC 10.1 Ω/M'	Foam FEP .138	Bare Copper Braid 95%	Plenum PVC	.207	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 18 AWG (7x26) TC	FEP .010	100% Al. Foil with drain wire	Plenum PVC	.148	30 pf/ft* 54 pf/ft**	69%	45Ω	Blue
CMP	Power Control Cable	1 Pair 18 AWG (7x26) BC	Plenum PVC .010	None	Plenum PVC	.138	--	--	--	Gray

PTZ25815 - Nom. O.D. .362"

Cable Types	Conductor Colors	Jacket Colors
CCTV Coaxial	--	Black
Data Control Cable	1.Black, 2. Red	Blue
Power Control Cable	1. Black, 2. Red	Gray



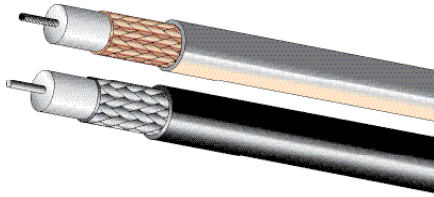
Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
100% Sweep Tested

Coaxial Cables

WEST PENN WIRE

RF Transmission 50 Ohm Coaxial RG58/U - RG58A/U and RG8/U Type



Applications:

- RF Transmission
- Broadcast Transmission

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
812 RG58A/U Type	CM	20 (19x32) Tinned Copper 8.8 Ω/M'	Gas Injected PE† .116	Tinned Copper Braid 95%	PVC	.195	25 pf/ft	78%	50Ω	Black
						Connectors 3 Pc. BNC - CN-BM53-13				
813 RG-58/U Type	CM	20 (Solid) Tinned Copper 10.1 Ω/M'	Gas Injected PE† .116	Tinned Copper Braid 95%	PVC	.195	26 pf/ft	78%	50Ω	Black
						Connectors 1 Pc. BNC - CN-BM51-1 3 Pc. BNC - CN-BM53-13				
25812 RG-58/U Type Plenum	CMP	20 (19x32) Tinned Copper 8.8 Ω/M'	Foam FEP .102	Tinned Copper Braid 95%	Flex Plenum	.158	25 pf/ft	82%	50Ω	Ivory
						Connectors 3 Pc. BNC - CN-BM53-25				
810 RG-8/U Type	CM	13 (7x21) Bare Copper 1.9 Ω/M'	Gas Injected PE† .280	Bare Copper Braid 95%	PVC	.405	26 pf/ft	82%	50Ω	Black
						Connectors 3 Pc. BNC - CN-BM53-8 3 Pc. "N" Type - CN-NM53/110				
25810 RG-8/U Type Plenum	CL2P	13 (7x21) Bare Copper 1.9 Ω/M'	Foam FEP .280	Bare Copper Braid 95%	Copolymer	.352	25 pf/ft	82%	50Ω	Natural
						Connectors 3 Pc. BNC - CN-25810KBNC				
808F RG-8/U Type Flexible	--	10 (19x33) Bare Copper 1.15 Ω/M'	Gas Injected PE† .285	Bonded Bifoil 100% Tinned Copper Braid 90%	Poly- urethane	.405	24.5 pf/ft	84%	50Ω	Black
						Connectors 3 Pc. "N" Type - CN-NM53-808				
807 RG-8X/U Type Flexible	CM	16 (19x29) Bare Copper 4.3 Ω/M'	Gas Injected PE† .155	Bare Copper Braid 95%	PVC	.242	25 pf/ft	82%	50Ω	Black
						Connectors 3 Pc. BNC - CN-BM53-8X 3 Pc. "N" Type - CN-NM53-8X				

Electrical Specifications:

Attenuation (db/100ft)

CAT. NO.	1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	900 MHz	1 GHz
812	.5	1.3	3.2	4.6	6.8	10.1	16.7	18.2
813	.6	1.5	3.5	4.8	6.9	10.2	16.8	18.3
25812	.5	1.3	3.2	4.6	6.8	10.1	16.7	18.2
810	.2	.6	1.3	1.8	2.6	3.9	6.8	7.3
25810	.2	.6	1.2	1.6	2.5	3.7	6.7	7.2
808F	.2	.6	1.1	1.5	2.0	2.9	4.5	4.8
807	.3	.9	2.1	3.1	4.5	6.6	10.7	11.2

Notes:

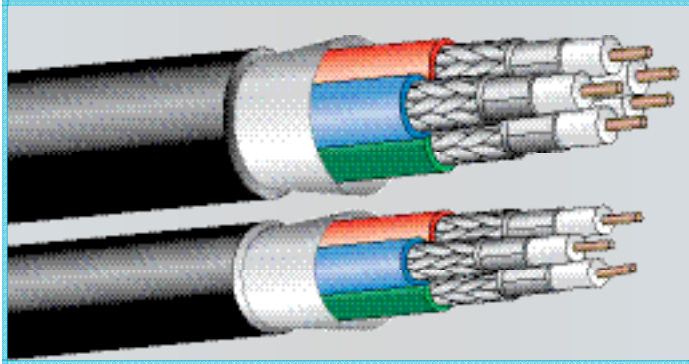
Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

100% Sweep Tested

Broadcast Coaxial Cables

WEST PENN WIRE



The **West Penn Wire** brand is strongly recognized when anyone mentions pro video or pro audio cables. A market this adamant upon cable performance is exactly why **West Penn Wire** is and will continue to be a leader in the broadcast market.

When you think of the characteristics of a high quality broadcast cable, you think of signal integrity, dependability and performance. A broadcast product needs to be of top quality, which is why we take it upon ourselves to make such high quality products for this market. From Pro Video to Pro Audio to RGB/Sync cables, serial digital cables, and accessories **West Penn Wire** covers it all.

For more detailed information on our Broadcast Cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at sales@westpenn-wpw.com. Information can also be found on our website- www.westpenn-wpw.com

Mini Index

Video Cables

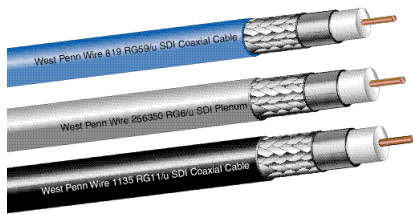
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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Broadcast Coaxial Cables

WEST PENN WIRE



Broadcast Video Cable Pro-Video/ Serial Digital SDI Applications:

- Digital Video
- CCTV
- CATV

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
HD825	CMR	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE† .085	Bifoil 100% Tinned Copper Braid 95%	PVC	.146	16.2 pf/ft	82%	75Ω	Colors See Below
						Connectors 75Ω 3 Pc. BNC - CN-BM74-18 75Ω Compression BNC - CN-CSBNC-25				
HD25825	CMP	25 AWG (Solid) BC 30Ω/M'	Foam FEP .078	Bifoil 100% Tinned Copper Braid 95%	Flex Plenum	.146	16.2 pf/ft	82%	75Ω	Colors See Below
						Connectors 75Ω 3 Pc. BNC - CN-BM74-18 75Ω Compression BNC - CN-CSBNC-25				
819	CMR	20 AWG (Solid) BC 10Ω/M'	Gas Injected PE† .142	Bifoil 100% Tinned Copper Braid 95%	PVC	.232	16.2 pf/ft	82%	75Ω	Colors See Below
						Connectors 75Ω 3 Pc. BNC - CN-BM73-2 75Ω Compression BNC - CN-CSBNC-59				
25819	CMP	20 AWG (Solid) BC 10Ω/M'	Foam FEP .138	Bifoil 100% Tinned Copper Braid 95%	Flex Plenum	.207	16.2 pf/ft	84%	75Ω	Colors See Below
						Connectors 75Ω 3 Pc. BNC - CN-BM73-30 75Ω Compression BNC - CN-CSBNC-59				
6350	CMR	18 AWG (Solid) BC 6.4Ω/M'	Gas Injected PE† .180	Bifoil 100% Tinned Copper Braid 95%	PVC	.275	16.2 pf/ft	82%	75Ω	Colors See Below
						Connectors 75Ω 3 Pc. BNC - CN-BM73-5 75Ω Compression BNC - CN-CSBNC-6				
256350	CMP	18 AWG (Solid) BC 6.4Ω/M'	Foam FEP .170	Bifoil 100% Tinned Copper Braid 95%	Flex Plenum	.236	16.2 pf/ft	84%	75Ω	Colors See Below
						Connectors 75Ω 3 Pc. BNC - CN-BM73-4 75Ω Compression BNC - CN-CSBNC-6				
1135	CMR	14 AWG (Solid) BC 2.5Ω/M'	Gas Injected PE† .280	Bifoil 100% Tinned Copper Braid 95%	PVC	.405	16.0 pf/ft	85%	75Ω	Colors See Below
						Connectors 3 Pc. BNC - CN-BM53-26				
P806	--	20 AWG (Solid) BC 10Ω/M'	Solid PE .180	2- Tinned Copper Braid 96% each	PE	.305	21.0 pf/ft	66%	75Ω	Black
						Connectors 75Ω 3 Pc. BNC - CN-BM73-3				

SDI JACKET COLORS

Note: A minimum order quantity may apply on select jacket colors.

- Black • Red • Green • Blue • White • Yellow
- Violet • Brown • Orange

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage 100% Sweep Tested, 0.3MHz to 3GHz

Broadcast Coaxial Cables

Broadcast Video Cable Electrical Specifications



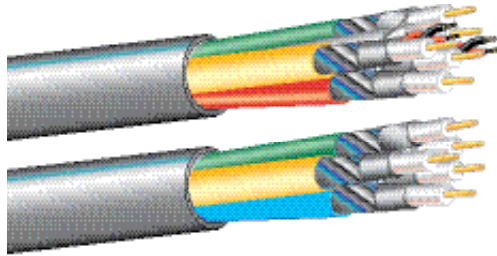
Catalog No.	Return Loss 100kHz-1GHz 1GHz- 3GHz	Attenuation (db/100ft)												
		1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	540 MHz	720 MHz	1 GHz	2.25 GHz	3 GHz	4.5 GHz
HD825	>23dB >21dB	.48	.98	1.73	3.51	4.69	6.51	7.72	9.3	10.88	13.34	18.92	22.16	--
HD25825	>23dB >21dB	.48	.99	1.75	3.54	4.73	6.57	7.79	9.38	10.98	13.46	19.28	22.80	--
819	>23dB >21dB	.28	.44	.66	1.93	2.62	3.79	4.3	5.31	6.23	7.49	11.19	13.23	16.40
25819	>23dB >21dB	.28	.48	1.03	2.20	2.83	4.55	5.24	6.12	7.29	9.40	17.48	21.60	--
6350	>23dB >21dB	.23	.36	.5	1.47	1.93	2.85	3.22	3.93	4.65	5.52	8.75	10.45	13.30
256350	>23dB >21dB	.24	.45	.75	1.77	2.45	3.30	4.0	5.10	5.90	7.30	11.59	13.71	--
1135	>23dB >21dB	.15	.23	.34	1.11	1.45	2.02	2.40	2.93	3.46	4.08	6.01	7.24	--
P806	>23dB	.25	.52	.8	2.2	3.0	4.3	5.2	6.3	7.4	9.2	--	--	--

SDI TRANSMISSION DISTANCES

SERIAL DIGITAL (SDI) TRANSMISSION DISTANCES						
DATA RATE	143Mbps	177Mbps	270Mbps	360Mbps	540Mbps	1.485Mbps
SPECS	SMPTE259M	ITU-RBT.601	SMPTE259M	SMPTE259M	SMPTE344M	SMPTE292M
APPLICATION	COMPOSITE NTSC	COMPOSITE PAL	COMPONENT VIDEO	COMPONENT WIDESCREEN	COMPRESSED HDTV	HDTV
WPW P.N						
HD825	769	705	578	510	415	158
819	1399	1292	1067	915	712	290
6350	1840	1746	1399	1205	947	380
1135	2432	2250	1862	1646	1337	513

Broadcast Coaxial Cables

WEST PENN WIRE



Broadcast Video Cable RGB 25 Awg. Spiral Shielded Cables

Applications:

- Standard Definition Serial Digital Video
- Digital Audio(AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast interconnection

Standard spool size 1000ft. **NEW**

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type		Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
					Overall PVC	Ind. Coax PVC					
5CRGB 5 Coax RGB	CM	5 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC	.330	16.2 pf/ft	82%	75Ω	Black	
					Ind. Coax PVC .105	Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-CSBNC-26					
6CRGB2P 6 Coax RGB 2 Pair Audio	CM	6 Cond. 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC	.410	16.2 pf/ft	82%	75Ω	Black	
					Ind. Coax PVC .105	Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-CSBNC-26					
6CRGB4P 6 Coax RGB (1) - 4 Pair Cat 5E	CM	6 Cond. 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC	.450	16.2 pf/ft	82%	75Ω	Black	
					Ind. Coax PVC .105	Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-CSBNC-26					

Individual Jacket Colors

Coax 1 : **Red** Coax 2 : **Green**
Coax 3 : **Blue** Coax 4 : **White**
Coax 5 : **Yellow** Coax 6: **Black**

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	540 MHz	720 MHz	1 GHz	2.25 GHz	3 GHz
25 Awg	>23dB >21dB	.49	1.18	1.7	4.56	6.10	8.46	10.04	12.09	14.14	17.85	24.60	38.81
26 Awg Plenum	>23dB >21dB	.5	1.19	1.71	4.7	6.3	9.1	10.62	13.62	16.2	19.5	35.3	43.7

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage 100% Sweep Tested, 0.3MHz to 3GHz

Broadcast Coaxial Cables

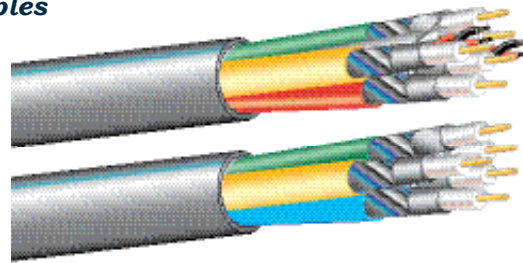
WEST PENN WIRE

Broadcast Video Cable

RGB 25 & 26 Awg. Spiral Shielded Plenum Cables

Applications:

- Standard Definition Serial Digital Video
- Digital Audio(AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast interconnection



NEW Standard spool size 1000ft.

25 Awg. Plenum

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type Inches	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
253CRGB 3 Coax RGB Plenum	CMP	3 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Copolymer	.260	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum .105					
					Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-FS1BNC					
255CRGB 5 Coax RGB Plenum	CMP	5 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Copolymer	.310	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum .105					
					Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-FS1BNC					
256CRGB2P 6 Coax RGB 2 Pair Audio Plenum	CMP	6 Cond. 25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Copolymer	.395	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum .105					
		Twisted Pair Construction 2 Pair 22 Awg. (7x30) Bare Copper, Shielded, Plenum PVC Jackets (Black, Red)			Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-FS1BNC					

26 Awg. Plenum

WP258263 3 Coax RGB Plenum	CMP	3 Conductor 26 AWG (7x34) TC 41Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Copolymer	.260	16.1 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum .108					
					Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-CSBNC-26					
WP258265 5 Coax RGB Plenum	CMP	5 Conductor 26 AWG (7x34) TC 41Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Copolymer	.310	16.1 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum .108					
					Connectors 75Ω 3 Pc. BNC - CN-BM74-19 75Ω Compression BNC - CN-CSBNC-26					

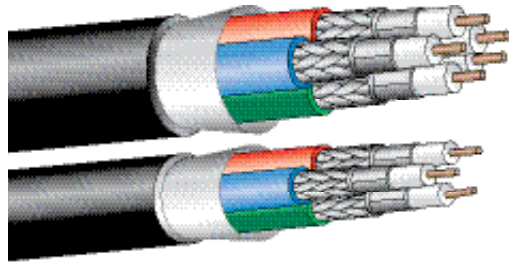
Electrical Specifications See page 82

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
Bifoil is an aluminum polyester aluminum tape with 100% coverage
100% Sweep Tested

Broadcast Coaxial Cables

WEST PENN WIRE



Broadcast Video Cable

RGB 25 Awg. MiniMax

Applications:

- Standard Definition Serial Digital Video
- Digital Audio(AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast interconnection

MiniMax Non-Plenum

Standard pool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type Inches	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
WP8253	CM	3 Conductor 25 AWG (Solid) BC	Gas Injected PE† .085	Bifoil* 100% + TC Braid 95%	Overall PVC	.415	16.2 pf/ft	82%	75Ω	Black
3 Coax RGB		30Ω/M'			Ind. Coax PVC .146	Connectors 75Ω 3 Pc. BNC - CN-BM74-18 75Ω Compression BNC - CN-CSBNC-25 RCA Compression - CN-CSRCA-25				
WP8255	CM	5 Conductor 25 AWG (Solid) BC	Gas Injected PE† .085	Bifoil* 100% + TC Braid 95%	Overall PVC	.474	16.2 pf/ft	82%	75Ω	Black
5 Coax RGB		30Ω/M'			Ind. Coax PVC .146	Connectors 75Ω 3 Pc. BNC - CN-BM74-18 75Ω Compression BNC - CN-CSBNC-25 RCA Compression - CN-CSRCA-25				

MiniMax Plenum

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type Inches	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
WP258255	CMP	5 Conductor 25 AWG (Solid) BC	Foam FEP .078	Bifoil* 100% + TC Braid 95%	Overall Copolymer	.425	16.2 pf/ft	82%	75Ω	Blue
5 Coax RGB		30Ω/M'			Ind. Coax Flex Plenum .146	Connectors 75Ω 3 Pc. BNC - CN-BM74-18 75Ω Compression BNC - CN-CSBNC-25 RCA Compression - CN-CSRCA-25				

Individual Jacket Colors

Coax 1 : **Red** Coax 2 : **Green**
Coax 3 : **Blue** Coax 4 : **White**
Coax 5 : **Yellow**

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	540 MHz	720 MHz	1 GHz	2.25 GHz	3 GHz
25 Awg	>23dB >21dB	.48	.98	1.73	3.51	4.69	6.51	7.72	9.3	10.88	13.34	18.92	22.16

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

† - Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage
100% Sweep Tested. 0.3MHz to 3GHz.

Broadcast Coaxial Cables

WEST PENN WIRE

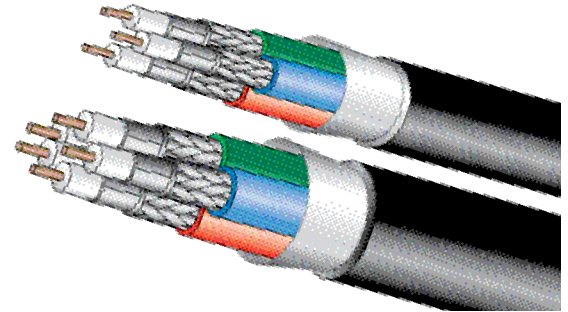
Broadcast Video Cable

High Resolution & Super High Resolution RGB Cables

Applications:

- Standard Definition Serial Digital Video
- Digital Audio(AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast interconnection

Standard spool size 1000ft.



RG59/U High Resolution

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
					Inches					
WP8195 5 Coax RGB RG59/U Type	CM	5 Conductor 20 (Solid) Bare Copper 10.0Ω/M'	Gas Injected PE† .142	Bifoil* 100% + TC Braid 95%	Overall PVC	.725	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax PVC .232					
WP258195 5 Coax RGB Plenum RG59/U Type	CMP	5 Conductor 20 (Solid) Bare Copper 10.0Ω/M'	Foam FEP .138	Bifoil* 100% + TC Braid 95%	Overall Copolymer	.595	16.1 pf/ft	84%	75Ω	Blue
					Ind. Coax PVC .207					

RG6/U Super High Resolution

WP6355 5 Coax RGB RG6/U Type	CM	5 Conductor 18 (Solid) Bare Copper 6.4Ω/M'	Gas Injected PE† .180	Bifoil* 100% + TC Braid 95%	Overall PVC	.830	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax PVC .275					

Individual Jacket Colors

Coax 1 : Red Coax 2 : Green
Coax 3 : Blue Coax 4 : White
Coax 5 : Yellow

Electrical Specifications

WP8195 - See 819 Electrical Specifications Pg.81

WP258195 - See 25819 Electrical Specifications Pg.81

WP6355 - See 6350 Electrical Specifications Pg.81

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

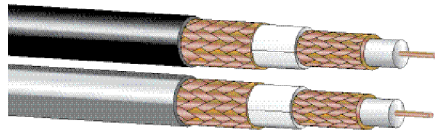
†- Gas Injected Polyethylene

*-Bifoil is an aluminum polyester aluminum tape with 100% coverage

100% Sweep Tested, 0.3MHz to 3GHz

Broadcast Coaxial Cables

WEST PENN WIRE



Broadcast Video Cable Video Triaxial Cable/ RG59/U Type

Applications:

- TV Broadcast
- TV Camera Interconnection
- Instrumentation Applications

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
3815	CL2	20 AWG (Solid) BC 10.1 Ω /M'	Gas Injected PE† .142	2 B.C. Braid 95% .020 PVC Separator	PVC	.315	16.2 pf/ft	82%	75 Ω	Black
						Connectors King's Triax Female - 7703-9 King's Triax Male - 7705-9				
5992	Outdoor	20 AWG (Solid) BC 10.1 Ω /M'	Gas Injected PE† .142	2 B.C. Braid 95% .020 PVC Separator	PE	.315	16.2 pf/ft	82%	75 Ω	Black
						Connectors King's Triax Female - 7703-9 King's Triax Male - 7705-9				
5994	Flex Design 3/8" Type	20 AWG (Solid) BC 10.1 Ω /M'	Gas Injected PE† .142	2 B.C. Braid 95% .020 PVC Separator	Dura-Flex	.355	16.2 pf/ft	82%	75 Ω	Black
						Connectors King's Triax Female - 7703-2 King's Triax Male - 7705-2				
253815	CMP Plenum	20 AWG (Solid) BC 10.1 Ω /M'	Foam FEP .138	2 B.C. Braid 95% .020 PVDF Copolymer Separator		.245	16.2 pf/ft	82%	75 Ω	Black Tint
						Connectors King's Triax Female - 7703-6 King's Triax Male - 7705-4				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)							
		1 MHz	5 MHz	10 MHz	50 MHz	100 MHz	400 MHz	750 MHz	1 GHz
RG59/U Non-Plenum	>23dB	.5	.7	.9	1.8	2.2	5.6	7.2	9.1
RG59/U Plenum	>23dB	.35	.55	.85	1.9	2.7	5.6	7.9	9.6

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

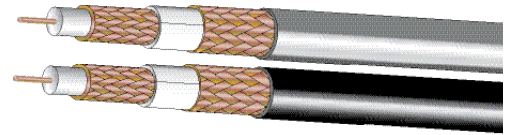
†- Gas Injected Polyethylene

Sweep Tested, 0.3MHz to 3GHz

Broadcast Coaxial Cables

Broadcast Video Cable

Video Triaxial Cable/ RG11/U Type



Applications:

- TV Broadcast
- TV Camera Interconnection
- Instrumentation Applications

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
3811	CL2	14 AWG (Solid) BC 2.6Ω/M'	Gas Injected PE† .280	2 B.C. Braid 95% .020 PVC Separator	PVC	.475	16.2 pf/ft	82%	75Ω	Black
						Connectors King's Triax Female - 7703-1 King's Triax Male - 7705-1				
1150	Outdoor	14 AWG (Solid) BC 2.6Ω/M'	Gas Injected PE† .280	2 B.C. Braid 95% .020 PVC Separator	PE	.475	16.2 pf/ft	82%	75Ω	Black
						Connectors King's Triax Female - 7703-1 King's Triax Male - 7705-1				
1165	Flex Design	14 AWG (Solid) BC 3.0Ω/M'	Gas Injected PE† .304	2 B.C. Braid 95% .020 PVC Separator	Dura-Flex	.510	17.0 pf/ft	82%	75Ω	Black
						Connectors King's Triax Female - 7703-3 King's Triax Male - 7705-3				
253811	CL2P Plenum	14 AWG (Solid) BC 2.6Ω/M'	Foam FEP .272	2 B.C. Braid 95% .020 PVDF Separator	Copolymer	.420	16.2 pf/ft	82%	75Ω	Black Tint
						Connectors King's Triax Female - -- King's Triax Male - --				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)								
		1 MHz	5 MHz	10 MHz	50 MHz	100 MHz	400 MHz	500 MHz	700 MHz	1 GHz
RG11/U Non-Plenum	>23dB	.2	.27	.35	1.0	1.50	--	4.1	4.7	5.4
RG11/U Plenum	>23dB	.15	.26	.45	.90	1.40	3.80	--	--	7.0

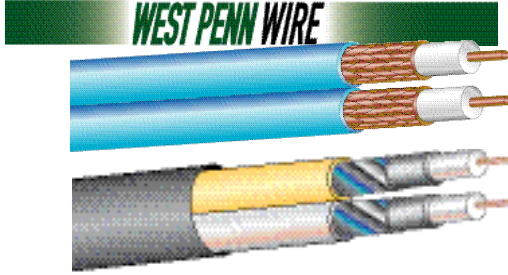
Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

Sweep Tested, 0.3MHz to 3GHz

Broadcast Coaxial Cables



Broadcast Video Cable SVHS - S-Video Cable

Applications:

- Pro-Video
- SVHS
- CCTV

Standard spool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
2825 Dual MiniMax	CM CL2	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE† .085	Bare Copper Braid 95%	PVC	.146 x .302	16.2 pf/ft	82%	75Ω	Blue
						Connectors 75Ω BNC - CN-BM74-18 4 Pin Mini Din- CN-SVHS-M				
252825 Dual MiniMax Plenum	CMP CL2P	25 AWG (Solid) BC 30Ω/M'	Foam FEP .078	Bare Copper Braid 95%	Flexible Plenum	.146 x .302	16.2 pf/ft	82%	75Ω	Blue
						Connectors 75Ω BNC - CN-BM74-18 4 Pin Mini Din- CN-SVHS-M				
252CSVHS	CMP	25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .078	Bare Copper Braid 95%	Flexible Plenum	.150 x .260	16.2 pf/ft	82%	75Ω	Black
						Connectors 75Ω BNC - CN-BM74-19 4 Pin Mini Din- CN-SVHS-M				

Notes: 252CSVHS
Overall Black Jacket
Yellow Coax- Luminance
White Coax- Chrominance

Broadcast Video Cable MiniMax Miniature - Siamese Construction

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
45825 Siamese Construction	CM	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE† .085	Bare Copper Braid 95%	PVC	.146 x .302	16.2 pf/ft	82%	75Ω	Black White
						Cable Construction Note: This cable contains 1 Coaxial unit plus 1 Pair 22 Awg. (7x30) Bare Copper, Shielded				

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)											
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	1 GHz	--	--	--	--
25 Awg	>23dB	.5	1.80	3.12	4.19	5.79	8.59	11.14	14.41	--	--	--	--

Electrical Specifications For 252CSVHS see page 80

Notes:
Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
† Gas Injected Polyethylene
Sweep Tested, 0.3MHz to 3GHz

Broadcast Coaxial Cables

Broadcast Video Cable

4 Pair 24 AWG UTP- Low Skew Cable

Applications:

Indoor for:

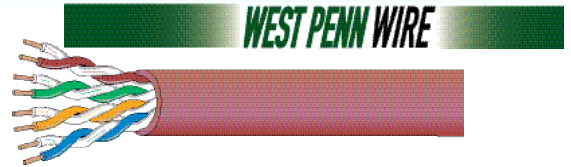
- UTP Based Video
- RGB over UTP
- Non-Plenum Versions for use in vertical run in a shaft and for general purpose communications use in accordance with Article 800 of the NEC
- Plenum Version for use in air handling ducts and spaces in accordance with Article 800 of the NEC

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • 4 Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test



Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
M58813	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	None UTP	PVC	.190	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Maroon
M58814	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum	None UTP	Thermo-Plastic	.185	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Maroon

Physical Characteristics	
Cable Weight	PL- 23 lbs/1000ft NPL- 20 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 68%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Maroon		

Notes:

West Penn Wire's low skew video twisted pair cable is a proven cost-effective alternative to coax for RGB video applications. This cable was developed in response to the increasing digital signage applications for marketing and advertising. Low skew cable supports longer cable runs than currently available with coax or data cables, has a smaller outside diameter than coax, and can be hidden via plenums or in walls. Made with 24 AWG solid copper cable, it is listed by Underwriters Laboratories as either plenum (CMP) or riser (CMR) applications

Broadcast Coaxial Cables



Broadcast Cables

Cable Assemblies/ Signal-Channel Coax

BNC to BNC are listed

Other Constructions are available: RCA to RCA

Catalog No.	Description	Available Colors	Standard Length (ft)
CN-7BHD825(Color)-(Length)	75Ω MiniMax Non-Plenum Cable: HD825	Black, Blue, Red, Yellow, Green, White	3, 6, 10,15,20, 25
CN-7B819(Color)-(Length)	75Ω RG59/U Non-Plenum Cable: 819	Black, Blue, Red, Yellow, Green, White	3, 6, 10,15,20, 25
CN-7B6350(Color)-(Length)	75Ω RG6/U Non-Plenum Cable: 6350	Black, Blue, Red, Yellow, Green, White	3, 6, 10,15,20, 25
CN7BHD25825(Color)(Length)	75Ω MiniMax Plenum Cable: HD25825	Black, Blue, Red, Yellow, Green, White	6, 10,15,25, 50,75

BK, BL, RD,
YE, GN, WH

Broadcast Cable Cable Assemblies/ RGB Cables BNC AND RCA CONNECTORS

Applications:

- Component Analog Video
- Multi-Channel SDI Digital Video



Catalog No.	Description	Colors	Standard Length (ft)
CN-5CRGB-(Length)	5 Coax RGB BNC to BNC Cable: 25 AWG Non-Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	12, 25, 50, 75, 100
CN-255CRGB-(Length)	5 Coax RGB BNC to BNC Cable: 25 AWG Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	12, 25, 50, 75, 100
CN-8195-(Length)	5 Coax RGB BNC to BNC Cable: RG59/U WP8195 Non-Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	12, 25, 50, 75, 100, 150, 200
CN-258195-(Length)	5 Coax RGB BNC to BNC Cable: RG59/U WP258195 Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	12, 25, 50, 75, 100, 150, 200
CN-6355-(Length)	5 Coax RGB BNC to BNC Cable: RG6/U WP6355 Non Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	12, 25, 50, 75, 100, 150, 200
CN-7B258263-(Length)	3 Coax RGB BNC to BNC Cable: 26Awg. Plenum	Jacket: Black Ind. Coax: RD, GN, BL	25, 50, 75, 100, 150
CN258263RCA (Length)	3 Coax RGB RCA To RCA Cable: 26Awg. Plenum	Jacket: Black Ind. Coax: RD, GN, BL	25, 50, 75, 100, 150
CN-E3BNC-(Length)	3 Coax RGB PVC BNC Economy	Jacket: Black Ind. Coax: RD, GN, BL	3, 6, 12
CN-E3RCA-(Length)	3 Coax RGB PVC RCA Economy	Jacket: Black Ind. Coax: RD, GN, BL	3, 6, 12

Cable Assemblies/ Audio/Video

Catalog No.	Description	Colors	Standard Lengths (ft.)
CNLSAVRCA (Length)	CM - Audio/Video Cable: Coax + 2 Audio Cables	Video: Coax- Yellow Jkt Pair 1 : Left Audio- White Jkt Pair 2 : Right Audio- Red Jkt	25, 50, 75, 100, 150
CNLS25AVRCA (Length)	CMP- Plenum Audio/Video Cable: Coax + 2 Audio Cables	Video: Coax- Yellow Jkt Pair 1 : Left Audio- White Jkt Pair 2 : Right Audio- Red Jkt	25, 50, 75, 100, 150

Connectors:

Coaxial Cable: CN-CSRCA-25 - RCA Coaxial Connector

Left Audio: White Audio Cable: 19-1268- Black RCA Connector

Broadcast Coaxial Cables

Broadcast Cable

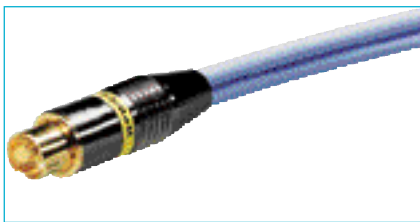
Cable Assemblies/ VGA (HD15 and BNC)



Applications:

- High Resolution VGA application
- Component Video

Catalog No.	Description	Colors	Standard Length (ft)
CN258265BHDF (Length)	26 Awg. - 5 Coax - HD15 Female to 5 BNC Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN258265BHDM (Length)	26 Awg. - 5 Coax - HD15 Male to 5 BNC Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN258265HDFM (Length)	26 Awg. - 5 Coax - HD15 to HD15 Female to Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN258265HDMM (Length)	26 Awg. - 5 Coax - HD15 to HD15 Male to Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN-EVGA-(Length)	Economy HD15(M) TO BNC (F)	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	1, 3, 6, 10, 15
CN255CRGBHDF (Length)	25 Awg. - 5 Coax - HD15 Female to 5 BNC Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN255CRGBHDM (Length)	25 Awg. - 5 Coax - HD15 Male to 5 BNC Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN255CRGHDFM (Length)	25 Awg. - 5 Coax - HD15 to HD15 Female to Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175
CN255CRGHDM (Length)	25 Awg. - 5 Coax - HD15 to HD15 Male to Male Plenum	Jacket: Black Ind. Coax: RD, GN, BL, YE, WH	25, 50, 75, 100, 125, 150, 175



Broadcast Cables

Cable Assemblies/ SVHS

Applications:

- High Resolution SVHS (S-Video)
- SVHS to Chrominance and Luminance Components

Catalog No.	Description	Colors	Standard Length (ft)
DTD2825-(Length)	PVC 4 Pin Mini Din to 4 Pin Mini Din	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTB2825-(Length)	PVC 4 Pin Mini Din to 75Ω BNC's	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTD252825-(Length)	Plenum 4 Pin Mini Din to 4 Pin Mini Din	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTB252825-(Length)	Plenum 4 Pin Mini Din to 75Ω BNC's	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTDE-(Length)	Economy Mini Din to Mini Din	Jacket: Black	3, 6, 12

Catalog No.	Description	Colors	Standard Length (ft)
DTD252CSVHS-(Length)	PVC 4 Pin Mini Din to 4 Pin Mini Din	Jacket: Black	12, 25, 50, 75, 100, 125,150
DTB252CSVHS-(Length)	PVC 4 Pin Mini Din to 75Ω BNC's	Jacket: Black	12, 25, 50, 75, 100, 125,150

SVHS Connectors	
Catalog No.	Description
CN-SVHS-M	4 Pin Mini Din SVHS Connector Male
CN-SVHS-FB	4 Pin Mini Din SVHS Feed Thru
CN-MD4FFN	4 Pin Mini Din Front Panel Mount Feed Thru



Broadcast Coaxial Cables

Broadcast Cables

Cable Assemblies/ HDMI and DVI



Applications:

- HDMI Digital Video
- DVI-D Digital Video
- 1080i Uncompressed HDTV

Catalog No.	Description	Standard Length (meters)
CN-HDMI-xM	HDMI TO HDMI IN METERS	Replace x with: 1, 2, 3, 5, 6, 8,10,12
CN-HDMIXLR-xM	HDMI TO HDMI WITH REPEATER IN METERS	Replace x with: 15, 20, 30

Broadcast Cable A/V Wallplates

Catalog No.	Description
CN-SSHDTB3RS3.5	1-HD15 Term. Block, 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- Stainless
CN-WSHDTB3RS3.5	1-HD15 Term. Block, 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- White
CN-SSHD3RS3.5	1-HD15 (f-f), 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- Stainless
CN-WSHD3RS3.5	1-HD15 (f,f), 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- White
CN-SSHDTB2R	1-HD15 Term. Block, 2 RCA Stainless
CN-WSHDTB2R	1-HD15 Term. Block, 2 RCA - White
CN-SSHD2R	1-HD15 (f-f), 2 RCA - Stainless
CN-WSHD2R	1-HD15 (f,f), 2 RCA - White
CN-SSHDTBS	1-HD15 Term. Block, 1-4Pin Mini Din- Stainless
CN-WSHDTBS	1-HD15 Term. Block, 1-4Pin Mini Din- White
CN-SSHDS	1-HD15 (f-f), 1-4Pin Mini Din- Stainless
CN-WSHDS	1-HD15 (f,f), 1-4Pin Mini Din- White
CN-SSHDTB3R	1-HD15 Term. Block, 3 RCA- Stainless
CN-WSHDTB3R	1-HD15 Term. Block, 3 RCA- White
CN-SSHD3R	1-HD15 (f-f), 3 RCA-- Stainless
CN-WSHD3R	1-HD15 (f,f), 3 RCA-- White
CN-SSHDTB3.5	1-HD15 Term. Block, 1- 3.5mm Audio- Stainless
CN-WSHDTB3.5	1-HD15 Term. Block, 1- 3.5mm Audio- White
CN-SSHD3.5	1-HD15 (f-f), 1- 3.5mm Audio- Stainless
CN-WSHD3.5	1-HD15 (f,f), 1- 3.5mm Audio- White
CN-SSHDTB3R3.5	1-HD15 Term. Block, 3 RCA, 1- 3.5mm Audio- Stainless
CN-WSHDTB3R3.5	1-HD15 Term. Block, 3 RCA, 1- 3.5mm Audio- White
CN-SSHD3R3.5	1-HD15 (f-f), 3 RCA, 1- 3.5mm Audio- Stainless
CN-WSHD3R3.5	1-HD15 (f,f), 3 RCA, 1- 3.5mm Audio- White
CN-SSHDTBV	1-HD15 Term. Block, 1 RCA- Stainless
CN-WSHDTBV	1-HD15 Term. Block, 1 RCA- White
CN-SSHDV	1-HD15 (f-f), 1 RCA- Stainless
CN-WSHDV	1-HD15 (f,f), 1 RCA- White
CN-SSV3.5	1 RCA,1- 3.5mm Audio- Stainless
CN-WSV3.5	1 RCA,1- 3.5mm Audio- White
CN-SSRGBHV	5 BNC- Stainless
CN-WSRGBHV	5 BNC- White



Broadcast Coaxial Cables

Broadcast Cable Install Kits/ HD15 Male to BNC Plenum & Non-Plenum Kits

Kit Components:

- Length of WP258265, 255CRGB or 5CRGB Connectorized at one end with HD15 Male
- 5- 75Ω BNC Connectors
- 5- Colored Boots
- Piece of Heat Shrink



Catalog No.	Description	Standard Length (ft)
CN258265KBHM(Length)	5 Coax RGB 26Awg.Plenum Cable - Connectorized with a HD15 on one end - 5 75Ω BNC with boots for the other end	25, 50, 75, 100, 125, 150, 175, 200
CN255CRGKBHM(Length)	5 Coax RGB 25Awg.Plenum Cable - Connectorized with a HD15 on one end - 5 75Ω BNC with boots for the other end	25, 50, 75, 100, 125, 150, 175, 200
CN5CRGKBHM(Length)	5 Coax RGB 25Awg. Non-Plenum Cable - Connectorized with a HD15 on one end - 5 75Ω BNC with boots for the other end	25, 50, 75, 100, 125, 150, 175, 200



Broadcast Cables

Install Kits/ HD15 Male to HD15 (M or F)

Kit Components:

- Length of WP258265, 255CRGB or 5CRGB Connectorized at one end with HD15 Male
- The other end is prepared for field termination
- 1- HD15 Male
- 1- HD15 Female
- HD15 Hood
- Piece of Heat Shrink

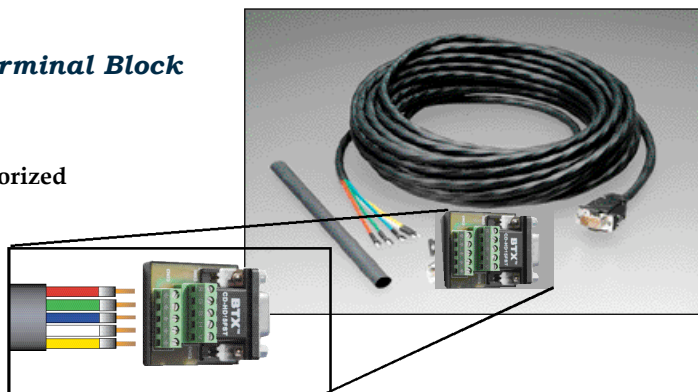
Catalog No.	Description	Standard Length (ft)
CN258265KHMF(Length)	5 Coax RGB 26Awg.Plenum Cable - Connectorized with a HD15 on one end - HD15 (M or F) for the other end.	25, 50, 75, 100, 125, 150, 175, 200
CN255CRGKHMF(Length)	5 Coax RGB 25Awg.Plenum Cable - Connectorized with a HD15 on one end - HD15 (M or F) for the other end.	25, 50, 75, 100, 125, 150, 175, 200
CN5CRGKHMF(Length)	5 Coax RGB 25Awg.Non-Plenum Cable - Connectorized with a HD15 on one end - HD15 (M or F) for the other end.	25, 50, 75, 100, 125, 150, 175, 200

Broadcast Cable

Install Kits/ HD15 Male to HD 15 Terminal Block

Kit Components:

- Length of WP258265, 255CRGB or 5CRGB Connectorized at one end with HD15 Male
- The other end is prepared for field termination
- 1-HD Terminal Block (CN-HD15FST)



Catalog No.	Description	Standard Length (ft)
CN258265KHTB(Length)	5 Coax RGB 26Awg.Plenum Cable - Connectorized with a HD15 on one end - HD15 Terminal Block	25, 50, 75, 100, 125, 150, 175, 200
CN255CRGKHTB(Length)	5 Coax RGB 25Awg.Plenum Cable - Connectorized with a HD15 on one end - HD15 Terminal Block	25, 50, 75, 100, 125, 150, 175, 200
CN5CRGKHTB(Length)	5 Coax RGB 25Awg. Non-Plenum Cable - Connectorized with a HD15 on one end - HD15 Terminal Block	25, 50, 75, 100, 125, 150, 175, 200

Broadcast Coaxial Cables

Broadcast Cable Install Kits/ SVHS



Kit Components:

- Length of SVHS Cable Connectorized (one end) with 4 Pin Male Mini Din
- 2- 75Ω Male BNC Connector
- 2- Colored Boots
- 1- MiniDin to 2 Female BNC Pigtail

Applications:

- S-Video (SVHS)

Catalog No	Description	Standard Length (ft)
DTBK2825-(Length)	SVHS Install Kit 4 Pin MiniDin to 75Ω BNC or 4 Pin MiniDin Non-Plenum	25, 50, 75, 100, 150
DTBK252825-(Length)	SVHS Install Kit 4 Pin MiniDin to 75Ω BNC or 4 Pin MiniDin Plenum	25, 50, 75, 100, 150
DTBK252CSVHS(Length)	SVHS Install Kit 4 Pin MiniDin to 75Ω BNC or 4 Pin MiniDin Plenum	25, 50, 75, 100, 150

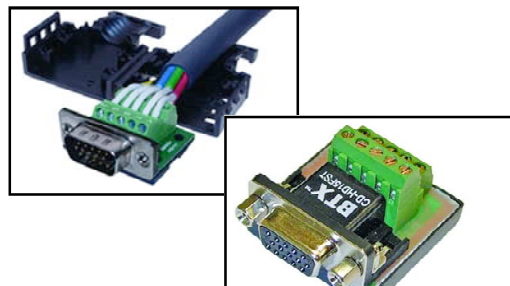


Digital Video Connector Cross-Reference				
Cat. No.	Connector Type	Connector	Crimp Tool	Strip Tool
HD825 HD25825 WP8255	75Ω BNC Crimp	CN-BM74-18	TL-105	TL-825
	75Ω BNC Compression	CN-CSBNC-25	TL-SNSA	TL-CSST
	75Ω BNC Crimp Female	CN-BF74-18	TL-105	TL-825
	RCA Crimp	CN-PRCA-825	--	--
	RCA Compression	CN-CSRCA-25	TL-SNSA	TL-CSST
819 WP8195	75Ω BNC Crimp	CN-BM73-2	TL-104	TL-121
	75Ω BNC Compression	CN-CSBNC-59	TL-SNSA	TL-CSST
	RCA Compression	CN-CSRCA-59	TL-SNSA	TL-CSST
25819 WP258195	75Ω BNC Crimp	CN-BM73-30	TL-104	TL-121
	75Ω BNC Compression	CN-CSBNC-59	TL-SNSA	TL-CSST
	RCA Compression	CN-CSRCA-59	TL-SNSA	TL-CSST
6350 WP6355	75Ω BNC Crimp	CN-BM73-5	TL-107	TL-121
	75Ω BNC Compression	CN-CSBNC-6	TL-SNSA	TL-CSST
	RCA Compression	CN-CSRCA-6	TL-SNSA	TL-CSST
256350	75Ω BNC Crimp	CN-BM73-4	TL-107	TL-121
	75Ω BNC Compression	--	--	--
	RCA Compression	CN-CSRCA-6	TL-SNSA	TL-CSST
1135	BNC Crimp	CN-BM53-26	TL-113	TL-124
P806	75Ω BNC Crimp	CN-BM73-3	--	--



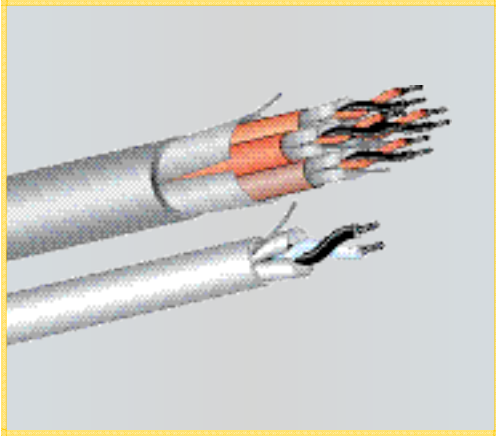
Connector Kits	
TL-CS25TKB	MiniMax Installation Kit Pro-Video (20 BNC + 20 RCA)
TL-CS26TK	26Awg. Miniature Installation Kit Pro-Video (20 BNC + 20 RCA)

HD15 Terminal Block Connectors	
Catalog No.	Description
CN-HD15FST	HD15(F) Terminal Block
CN-MX15F	PREMIUM HD15(F) Terminal Block
CN-MX15M	PREMIUM HD15(M) Terminal Block
CN-MX915H	Hood for PREMIUM Terminal Blocks



Broadcast Audio

WEST PENN WIRE



The **West Penn Wire** brand is strongly recognized when anyone mentions video or pro audio cables. A market this adamant upon cable performance is exactly why **West Penn Wire** is and will continue to be a leader in the broadcast market.

When you think of the characteristics of a high quality broadcast cable, you think of signal integrity, dependability and performance. A broadcast product needs to be of top quality, which is why we take it upon ourselves to make such high quality products for this market. From Pro Video to Pro Audio to RGB/Sync cables and serial digital cables **West Penn Wire** covers it all.

For more detailed information on our Broadcast cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at sales@westpenn-wpw.com. Information can also be found on our website- www.westpenn-wpw.com

Mini Index

Professional Audio Cables

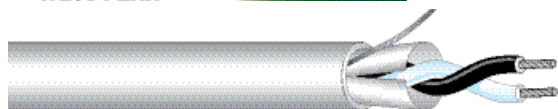
Line level Twisted Pair/ Shielded.....	96
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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Broadcast Audio

WEST PENN WIRE



Broadcast Audio Twisted Pair/ Shielded

Description:

- ASTM Tinned Copper • Polyethylene or Polypropylene insulation
- Overall shield 100% coverage of aluminum polyester foil with drain wire • Twisted pair construction • Overall PVC jacket

Rating:

- NEC Type CM or CL2
- (UL) or (ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Applications:

Indoor for:

- Pro-Audio
- Sound Systems
- Sound and Audio
- Recording Studios
- Post-Production Facilities

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	Drain Wire	Inches				
77291	1 Pair	22 AWG (7x30) 17 Ω/Mft	PE .016	Al. Foil 100% 22 Strd.	PVC .025	.175	CM	24pf/ft* 47pf/ft**	Gray
77292	1 Pair	20 AWG (7x28) 10.5 Ω/Mft	PE .016	Al. Foil 100% 20 Strd.	PVC .028	.204	CM	27pf/ft* 49pf/ft**	Gray
77293	1 Pair	18 AWG (16x30) 6.2 Ω/Mft	PE .018	Al. Foil 100% 20 Strd.	PVC .028	.222	CM	24pf/ft* 44pf/ft**	Gray
77294	1 Pair	16 AWG (19x29) 4.2 Ω/Mft	PE .032	Al. Foil 100% 18 Strd.	PVC .032	.315	CL2	23pf/ft* 44pf/ft**	Gray
77295	1 Pair	14 AWG (19x27) 2.7 Ω/Mft	PE .032	Al. Foil 100% 16 Strd.	PVC .035	.355	CL2	24pf/ft* 47pf/ft**	Gray
77296	1 Pair	12 AWG (19x25) 1.7 Ω/Mft	PE .037	Al. Foil 100% 14 Strd.	PVC .040	.400	CL2	25pf/ft* 49pf/ft**	Gray
77510†	2 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Ind. Shielded Al. Foil 100% with 1 drain wire	PVC .020	.189	CM	35pf/ft* 62pf/ft**	Gray

Notes:

† - Employs individually shielded pairs with one drain wire common to all shields.

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

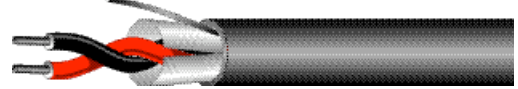
Special Notes:

- PE- Polyethylene
- PP- Polypropylene

Color Code		
Catalog No.	77291, 77292, 77293, 77294, 77295, 77296	77510
Primary Color Code	1. Black, 2. Clear	1. Black-Red, 2.White-Green
	JACKET: Gray	JACKET: Gray

Broadcast Audio

Broadcast Audio Plenum Cable Two Conductor / Overall Shielded



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Pro-Audio
- Sound Systems
- Sound and Audio
- Recording Studios
- Post-Production Facilities

Description:

- ASTM Tinned Copper • Teflon insulation • Overall shield 100% coverage of aluminum polyester foil with drain wire
- Twisted Pair Construction • Flexible plenum jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D25291	1 Pair	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Al. Foil 100% 24 Strd.	Flexible Plenum .015	.120	CMP	25 pf/ft* 45 pf/ft **	Gray
D25292	1 Pair	20 AWG (7x28) 10.5 Ω/Mft	Teflon .010	Al. Foil 100% 22 Strd.	Flexible Plenum .015	.135	CMP	27 pf/ft* 49 pf/ft **	Gray
D25293	1 Pair	18 AWG (7x26) 6.6 Ω/Mft	Teflon .010	Al. Foil 100% 22 Strd.	Flexible Plenum .015	.148	CMP	30 pf/ft* 54 pf/ft **	Gray
D25294	1 Pair	16 AWG (19x29) 4.4 Ω/Mft	Teflon .010	Al. Foil 100% 22 Strd.	Flexible Plenum .015	.170	CMP	36 pf/ft* 65 pf/ft **	Gray

Color Code	
Pair No.	Colors
1	Black/ Red
JACKET: Gray	

Electrical Characteristics
Nom. Vel of Propagation - 69%
Nom. Impedance Ω D25291- 55Ω
Nom. Impedance Ω D25292- 50Ω
Nom. Impedance Ω D25293- 45Ω
Nom. Impedance Ω D25294- 40Ω

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Teflon®- Dupont Tradename for FEP-Fluorinated Ethylene Propylene

Broadcast Audio

WEST PENN WIRE



Broadcast Audio Multiple Pair 22AWG / Individually Shielded

Description:

- ASTM Tinned Copper • Polyolefin insulation • Each pair shielded 100% coverage of aluminum polyester foil with 24 AWG Strd. TC drain wire • Short overall twist construction • Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Applications:

Indoor for:

- Pro-Audio
- Sound Systems
- Sound and Audio
- Recording Studios
- Post-Production Facilities

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Ind. Pair Shielding % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D430	2	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.244	CM	34pf/ft* 67 pf/ft**	Gray
D431	3	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.258	CM	34pf/ft* 67 pf/ft**	Gray
D439	4	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.280	CM	34pf/ft* 67 pf/ft**	Gray
D432	6	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .025	.332	CM	34pf/ft* 67 pf/ft**	Gray
D433	9	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .034	.390	CM	34pf/ft* 67 pf/ft**	Gray
D434	12	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .034	.420	CM	34pf/ft* 67 pf/ft**	Gray
D436	19	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .047	.565	CM	34pf/ft* 67 pf/ft**	Gray
D438	27	22 AWG (7x30) 17 Ω/Mft	Polyolefin .006	Each Pair Al. Foil 100%	PVC .047	.678	CM	34pf/ft* 67 pf/ft**	Gray

Special Notes:

- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see pages 41
- Select cables are available in our Easybox®
- Orange ripcord included on cables containing 3 or more pairs

Electrical Characteristics
Nom. Vel of Propagation - 66%
Nom. Impedance Ω 22 Awg.(7x30)- 55Ω

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Jacket Color Code See pg. 23

Broadcast Audio

Broadcast Audio Plenum Cable Multiple Pair / Individually Shielded



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Pro-Audio
- Sound Systems
- Sound and Audio
- Recording Studios
- Post-Production Facilities

Description:

- ASTM Tinned Copper • Teflon insulation • Each pair shielded 100% coverage of aluminum foil with 24 AWG Strd. drain wire
- Twisted pair construction • Flexible plenum jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D25430	2	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Individual Al. Foil 100%	Flex Plenum .015	.200	CMP	25 pf/ft* 45 pf/ft**	Gray
D25431	3	22AWG (7x30) 17 Ω/Mft	Teflon .010	Individual Al. Foil 100%	Flex Plenum .015	.214	CMP	25 pf/ft* 45 pf/ft**	Gray
D25439	4	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Individual Al. Foil 100%	Flex Plenum .015	.236	CMP	25 pf/ft* 45 pf/ft**	Gray
D25432	6	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Individual Al. Foil 100%	Flex Plenum .015	.288	CMP	25 pf/ft* 45 pf/ft**	Gray
D25510‡	2	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Individual Al. Foil 100%	Flex Plenum .015	.204	CMP	25 pf/ft* 45 pf/ft**	Gray

Electrical Characteristics
Nom. Vel of Propagation - 69%
Nom. Impedance Ω 22 Awg.(7x30)- 55Ω

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield

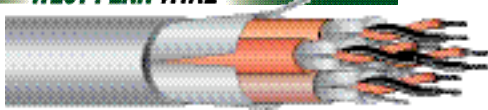
Color Code			
D25510		All Others	
Pair No.	Colors	Pair No.	Colors
1	Black/Red	1	Black/Red
2	White/Green	2	Black/White
		3	Black/Green
		4	Black/Blue
		5	Black/Yellow
		6	Black/Brown
JACKET: Gray			

Special Notes:

- ‡ Employs individually shielded pairs plus overall shield with one 24 AWG drain wire common to all shields to ensure greater shielding and lower DC resistance.
- Select cables are available in our Easybox®

Broadcast Audio

WEST PENN WIRE



Broadcast Audio Analog Multiple Pair/ Individually Shielded and Jacketed Pair

Description:

- ASTM Tinned Copper • Polypropylene insulation (Colors: Black,Red)
- Each Pair Individually Shielded with bonded aluminum polyester foil 100% coverage and 22 Strd. TC drain wire • Each Pair individually PVC jacketed
- Overall aluminum polyester foil with ‡ drain wire • Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Applications:

Indoor for:

- Pro-Audio
- Sound Systems
- Sound and Audio
- Recording Studios
- Post-Production Facilities

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Ind. Jkt. Nom. O.D.	NEC Type	Nom. Capacitance	Overall Jacket Color
WP4546	6 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair & Overall Al. Foil 100%	PVC .030	.475	CM	34pf/ft* 67pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .135"				
WP4548	8 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair & Overall Al. Foil 100%	PVC .030	.575	CM	34pf/ft* 67pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .135"				
WP45412	12 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair & Overall Al. Foil 100%	PVC .030	.675	CM	34pf/ft* 67pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .135"				
WP45416	16 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair & Overall Al. Foil 100%	PVC .030	.745	CM	34pf/ft* 67pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .135"				
WP45424	24 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair & Overall Al. Foil 100%	PVC .030	.925	CM	34pf/ft* 67pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .135"				
WP45432	32 Pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair & Overall Al. Foil 100%	PVC .030	1.02	CM	34pf/ft* 67pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .135"				

Special Notes:

- ‡ Individual pair drain wire size 22 AWG std. TC
- PP- Polypropylene

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Individual Jacket Color Code See pg. 104

Broadcast Audio

Broadcast Audio Miniature Dual Audio / Shielded

Applications:

Indoor for:

- Post-Production Facilities
- Recording Studios
- Sound and Audio
- Power-limited Control Circuits



Description:

- ASTM Tinned Copper • Polypropylene insulation
- Each Pair shield 100% coverage of aluminum polyester foil with 22 AWG TC drain wire • Figure 8 ZIP CONSTRUCTION • Twisted pair construction
- Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
210454 New	2 pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair Al. Foil 100% 22 Strd. drain	PVC .020	.135 x .280	CM	34pf/ft* 67pf/ft**	Gray
2452	2 pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Each Pair Al. Foil 100% 24 Strd. drain	PVC .020	.135 x .280	CM	34pf/ft* 67pf/ft**	Blue

Color Code	
210454	1. Black, Red 2. Black, White
	JACKET: Grey
2452	1. Black, Red
	JACKET: Blue

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- The Aluminum polyester foil is bonded to the jacket- 210454 only
- 210454 Overall jacket is Gray with one channel imprinted for identification
- 2452 Overall jacket is blue with one channel imprint for identification

Broadcast Audio

WEST PENN WIRE



Broadcast Audio AES/EBU Digital Audio Cable

Description:

- ASTM Tinned Copper • Low Loss Foam insulation • Individually shielded 100% coverage of aluminum polyester foil with 24 AWG Std. drain wire • DA2401 shield is bonded to the jacket for ease of stripping
- Twisted pair construction • Overall jacket

Rating:

- NEC Type CM or CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC

Applications:

Indoor for:

- Pro-Audio
- Sound Systems
- Sound and Audio
- Recording Studios
- Post-Production Facilities

Standard spool size 1000ft.

Non-Plenum - Individually Shielded Pairs + PVC Jacket									
Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
DA2401	1 Pair	24 AWG (7x32) 26 Ω/Mft	Foam PE .020	Each Pair & Overall Al. Foil 100%	PVC .030	.182	CM	12.5pf/ft* 22.5pf/ft **	Gray
DA2402	2 Pair	24 AWG (7x32) 26 Ω/Mft	Foam PE .020	Each Pair & Overall Al. Foil 100%	PVC .030	.298	CM	12.5pf/ft* 22.5pf/ft **	Gray
DA2406	6 Pair	24 AWG (7x32) 26 Ω/Mft	Foam PE .020	Each Pair & Overall Al. Foil 100%	PVC .045	.439	CM	12.5pf/ft* 22.5pf/ft **	Gray

Plenum - Individually Shielded Pairs + Plenum PVDF Jacket									
Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
DA252401	1 Pair	24 AWG (7x32) 26 Ω/Mft	Foam FEP .020	Each Pair & Overall Al. Foil 100%	PVDF .010	.141	CMP	12.5pf/ft* 22.5pf/ft **	Gray
DA252402	2 Pair	24 AWG (7x32) 26 Ω/Mft	Foam FEP .020	Each Pair & Overall Al. Foil 100%	PVDF .010	.238	CMP	12.5pf/ft* 22.5pf/ft **	Gray
DA252406	6 Pair	24 AWG (7x32) 26 Ω/Mft	Foam FEP .020	Each Pair & Overall Al. Foil 100%	PVDF .010	.350	CMP	12.5pf/ft* 22.5pf/ft **	Gray

Electrical Characteristics
Nom. Vel of Propagation - 78%
Nom. Impedance Ω - 110Ω

* Capacitance between conductors.
** Capacitance between one conductor and the other connected to the shield

Special Notes:

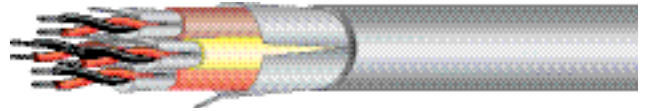
- Orange rip cord included on cables with 2 or more pairs.
- DA2401- available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black, Tan, Pink Jackets
- [Minimum order quantities may apply on select jacket colors.](#)
- PE- Polyethylene
- FEP- Teflon® Trademark of Dupont

Color Code			
Pair Colors			
Pair 1	Black/Red	Pair 4	Black/Blue
Pair 2	Black/White	Pair 5	Black/Yellow
Pair 3	Black/Green	Pair 6	Black/Brown
Jacket: Gray			

Broadcast Audio

WEST PENN WIRE

Broadcast Audio AES/ EBU Digital Audio Cable / Multiple Pair- Individually Shielded & Jacketed



Applications:

Indoor for:

- Pro- Audio
- Digital Audio
- Recording Studios
- Post-Production Facilities

Description:

- ASTM Tinned Copper • Low Loss Foam insulation • Each pair individually shielded with bonded foil 100% coverage of aluminum polyester foil with 24 AWG TC drain wire • Individual pair jackets and shields are bonded together for ease of stripping • Overall 100% coverage of aluminum polyester foil and drain wire • Overall PVC jacket with ripcord

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	‡	Inches	Inches			
DA2404S	4 pair	24 AWG (7x32) 26 Ω/Mft	Foam PE .020	Each Pair & Overall Al. Foil 100%	PVC .030	.528	CM	12.5pf/ft* 22.5pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .182"				
DA2408S	8 pair	24 AWG (7x32) 26 Ω/Mft	Foam PE .020	Each Pair & Overall Al. Foil 100%	PVC .030	.692	CM	12.5pf/ft* 22.5pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .182"				
DA2412S	12 pair	24 AWG (7x32) 26 Ω/Mft	Foam PE .020	Each Pair & Overall Al. Foil 100%	PVC .030	.846	CM	12.5pf/ft* 22.5pf/ft**	Gray
					Individual pair jacket Nom. O.D. - .182"				
Electrical Characteristics Nom. Vel of Propagation - 78% Nom. Impedance Ω - 110Ω									

Color Code			
Individual Jacket Colors			
1. Brown	4. Yellow	7. Violet	10. Black
2. Red	5. Green	8. Gray	11. Tan
3. Orange	6. Blue	9. White	12. Pink
Overall Jacket: Gray			

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Insulated conductor colors:
Black and Red
- Orange rip cord under jacket
- PE- Polyethylene

Broadcast Audio

WEST PENN WIRE



Broadcast Audio Miniature Audio / 22 Awg. Shielded

Applications:

Indoor for:

- Post-Production Facilities
- Recording Studios
- Sound and Audio
- Power-limited Control Circuits

Description:

- ASTM Tinned Copper • Polypropylene insulation
- Overall shield 100% coverage of aluminum polyester foil with drain wire • Twisted pair construction
- Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard pool size 1000ft.

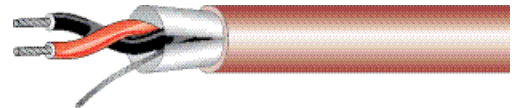
Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage Drain Wire	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
(X)454	1 pair	22 AWG (7x30) 17 Ω/Mft	PP .008	Al. Foil 100% 22 Strd.	PVC .020	.135	CM	34pf/ft* 67pf/ft**	See Color Code Chart
The Aluminum polyester shield is bonded to the jacket so both can be removed with automatic stripping equipment									

Color Code			
Pair No.	Jacket Color	Pair No.	Jacket Color
1	Brown	7	Violet
2	Red	8	Gray
3	Orange	9	White
4	Yellow	10	Black
5	Green	11	Tan
6	Blue	12	Pink

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Notes:
Replace (X) with number.
Example:
(2)454- Red Jacket

Broadcast Audio Miniature Audio / 22 Awg. Shielded Plenum



Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300 Volt • Flame Rating: NFPA-262 Smoke & Flame Test

Description:

- ASTM Tinned Copper • FEP Insulation • Overall shield 100% coverage of aluminum polyester foil with drain wire • Twisted Pair Construction • Overall Plenum Jacket

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage Drain Wire	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D25454 New	1 pair	22 AWG (7x30) 17 Ω/Mft	FEP .007	Al. Foil 100% 22 Strd.	Plenum .018	.130	CMP	35pf/ft* 67pf/ft**	See Color Code Chart
The Aluminum polyester shield is bonded to the jacket so both can be removed with automatic stripping equipment									

Special Notes:

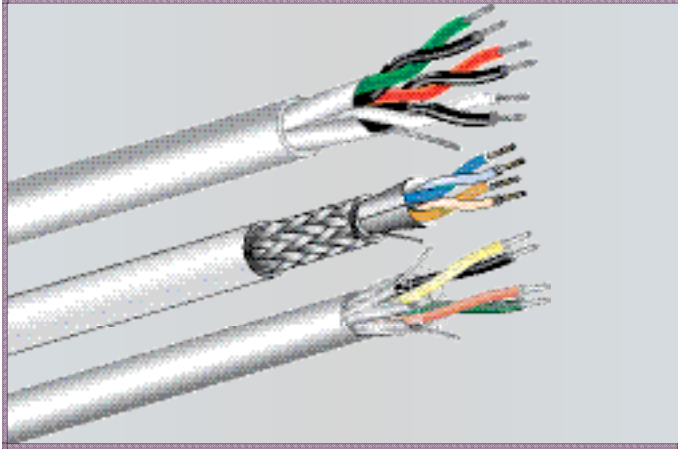
- The drain wire on these products are on the inside of the foil shield

Color Code	
D25454	1. Black, 2. Red
	JACKET: Black, Red, Gray, Blue, Brown

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Data Grade Cable

WEST PENN WIRE



West Penn Wire manufactures a variety of Data Grade Cables to meet the specifications of data transmission systems. Many of today's electronic systems are using higher speed data transmission for control, signaling, electronic processing and micro-processing based operations. These systems place increased demands on a cable's electrical characteristics.

For more detailed information on our Data Grade Cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at **sales@westpenn-wpw.com**. Information can also be found on our website- **www.westpenn-wpw.com**

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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Data Grade Cable

WEST PENN WIRE



Data Grade Cable Multiple Pair / Overall Shielded

Description:

- ASTM Tinned Copper • Polyolefin insulation
- Overall shield 100% coverage of aluminum polyester foil with 24 AWG strd. TC drain wire • Twisted Pair Construction • Overall PVC jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard pool size 1000ft.

Applications:

Indoor for:

- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D2401	1 Pair	24 AWG (7x32) 26 Ω/Mft	Polyolefin .013	Al. Foil 100%	PVC .030	.160	CM	14.5pf/ft* 26pf/ft **	Gray
D2402	2 Pair	24 AWG (7x32) 26 Ω/Mft	Polyolefin .013	Al. Foil 100%	PVC .030	.228	CM	14.5pf/ft* 26pf/ft **	Gray
D2403	3 Pair	24 AWG (7x32) 26 Ω/Mft	Polyolefin .013	Al. Foil 100%	PVC .030	.248	CM	14.5pf/ft* 26pf/ft **	Gray
D2404	4 Pair	24 AWG (7x32) 26 Ω/Mft	Polyolefin .013	Al. Foil 100%	PVC .030	.268	CM	14.5pf/ft* 26pf/ft **	Gray
D3651	2 Pair	22 AWG (7x30) 17 Ω/Mft	Polyolefin .010	Al. Foil 100%	PVC .030	.235	CM	26pf/ft* 47pf/ft **	Gray
D3652	3 Pair	22 AWG (7x30) 17 Ω/Mft	Polyolefin .010	Al. Foil 100%	PVC .030	.248	CM	26pf/ft* 47pf/ft **	Gray
D3653	4 Pair	22 AWG (7x30) 17 Ω/Mft	Polyolefin .010	Al. Foil 100%	PVC .030	.268	CM	26pf/ft* 47pf/ft **	Gray

Special Notes:

- Select Cables are available in Easybox[®]
- Orange ripcord included on cables containing 3 or more pairs.

Electrical Characteristics

Nom. Vel of Propagation - 66%
Nom. Impedance Ω 24 Awg.- 100Ω
Nom. Impedance Ω 22 Awg.- 55Ω

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Color Code

Pair No.	Colors
1	Black/Red
2	Black/White
3	Black/Green
4	Black/Blue
JACKET: Gray	

Data Grade Cable

Data Grade Cable Multiple Pair Series / Individually Shielded



Applications:

Indoor for:

- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data

Description:

- ASTM Tinned Copper • Polyolefin insulation • Each pair shielded 100% coverage of aluminum foil with 24 AWG Strd. TC drain wire • Twisted pair construction
- Overall PVC Jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

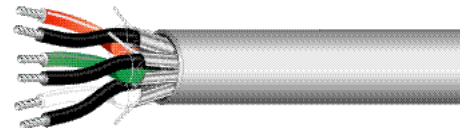
Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D420 †	2	22 AWG Solid 17.5 Ω/Mft	Polyolefin .015	Individual Al. Foil 100%	PVC .030	.261	CM	15.5 pf/ft* 28 pf/ft**	Gray

Color Code	
Pair No.	Colors
1	Black/Yellow
2	Red/Green
JACKET: Gray	

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test



Description:

- ASTM Tinned Copper • Teflon insulation • Each pair shielded 100% coverage of aluminum foil with 24 AWG Strd. drain wire • Twisted pair construction
- Flexible plenum jacket

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D25420†	2	22 AWG Solid 17.5 Ω/Mft	Teflon .012	Individual Al. Foil 100%	PVDF .015	.185	CMP	15.5 pf/ft* 28 pf/ft**	Gray

Special Notes:

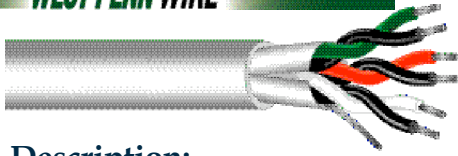
- † Drain wire 22 AWG Solid Tinned copper
- Selected cables are available in our Easybox®

Electrical Characteristics
Nom. Vel of Propagation - 66%
Nom. Impedance Ω D420 & D25420- 100Ω

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Data Grade Cable

WEST PENN WIRE



Data Grade Plenum Cable Multiple Pair Series / Overall Shielded

Description:

- ASTM Tinned Copper • Teflon Insulation • Overall shield 100% coverage of aluminum polyester foil with 24 Awg. Strd. drain wire • Twisted Pair Construction • Flexible plenum jacket

Rating:

- NEC Type CMP
- (UL)-C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Control
- Signaling
- Electronic Data
- Microprocessor Based
- Serial Data

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	& Coverage	Inches	Inches			
D252401	1	24 AWG (7x32) 26 Ω/Mft	Teflon .013	Al. Foil 100%	Flexible Plenum .015	.115	CMP	14.5 pf/ft* 26 pf/ft**	Gray
D252402	2	24 AWG (7x32) 26 Ω/Mft	Teflon .013	Al. Foil 100%	Flexible Plenum .015	.188	CMP	14.5 pf/ft* 26 pf/ft**	Gray
D252404	4	24 AWG (7x32) 26 Ω/Mft	Teflon .013	Al. Foil 100%	Flexible Plenum .015	.224	CMP	14.5 pf/ft* 26 pf/ft**	Gray
D253651	2	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Al. Foil 100%	Flexible Plenum .015	.191	CMP	25 pf/ft* 45 pf/ft**	Gray
D253652	3	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Al. Foil 100%	Flexible Plenum .015	.204	CMP	25 pf/ft* 45 pf/ft**	Gray
D253653	4	22 AWG (7x30) 17 Ω/Mft	Teflon .010	Al. Foil 100%	Flexible Plenum .015	.224	CMP	25 pf/ft* 45 pf/ft**	Gray

Electrical Characteristics

Nom. Vel of Propagation - 69%
Nom. Impedance Ω 24 Awg.- 100Ω
Nom. Impedance Ω 22 Awg.- 55Ω

Color Code

Pair No.	Colors
1	Black/Red
2	Black/White
3	Black/Green
4	Black/Blue
JACKET: Gray	

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Select cables available in our Easybox®
- Teflon®- Dupont Tradename for FEP-Fluorinated Ethylene Propylene

Data Grade Cable

Data Grade Cable Multiple Pair Series / Overall Shielded RS-485 Data Cables



Applications:

Indoor for:

- Computer Application
- Low Capacitance Data
- RS-485 Data Applications

Description:

- ASTM Tinned Copper • Polyolefin Insulation • Twisted pair construction • Polyester wrap • Overall shield 100% coverage of aluminum polyester foil with 24 Awg. Stranded drain wire
- 90% Tinned Copper Braid • Overall PVC Jacket

Rating:

- NEC Type CM
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D4851	1	24 AWG (7x32) 26 Ω/Mft	Polyolefin .020	Al. Foil-100% with drain wire TC Braid 90%	PVC .032	.275	CM	12.8 pf/ft* 23 pf/ft**	Gray
D4852	2	24 AWG (7x32) 26 Ω/Mft	Polyolefin .020	Al. Foil-100% with drain wire TC Braid 90%	PVC .032	.305	CM	12.8 pf/ft* 23 pf/ft**	Gray
D4853	3	24 AWG (7x32) 26 Ω/Mft	Polyolefin .020	Al. Foil-100% with drain wire TC Braid 90%	PVC .032	.320	CM	12.8 pf/ft* 23 pf/ft**	Gray
D4854	4	24 AWG (7x32) 26 Ω/Mft	Polyolefin .020	Al. Foil-100% with drain wire TC Braid 90%	PVC .032	.345	CM	12.8 pf/ft* 23 pf/ft**	Gray

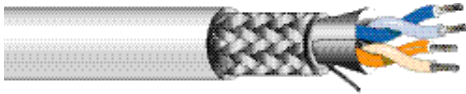
Color Code	
Pair No.	Colors
1	Blue- White
2	Orange- White
3	Green- White
4	Brown- White
JACKET: Gray	

Electrical Characteristics
Nom. Vel of Propagation - 66%
Nom. Impedance Ω 24 Awg.- 120Ω

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Data Grade Cable

WEST PENN WIRE



Data Grade Plenum Cable Multiple Pair Series / Overall Shielded RS-485 Data Cables

Description:

- ASTM Tinned Copper • Foam Teflon Insulation • Twisted Pair Construction • Polyester wrap • Overall shield 100% coverage of aluminum polyester foil with 24 Awg. Stranded drain wire
- 90% Tinned Copper Braid • Overall Flexible Plenum Jacket

Rating:

- NEC Type CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Computer Application
- Low Capacitance Data
- RS-485 Data Applications

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D254851 New	1	24 AWG (7x32) 26 Ω/Mft	Foam Teflon®	Al. Foil-100% with drain wire TC Braid 90%	Flex. Plenum	.202	CMP	12 pf/ft* 22 pf/ft**	Gray
D254852 New	2	24 AWG (7x32) 26 Ω/Mft	Foam Teflon®	Al. Foil-100% with drain wire TC Braid 90%	Flex. Plenum	.305	CMP	12 pf/ft* 22 pf/ft**	Gray

Electrical Characteristics
Nom. Vel of Propagation - 76%
Nom. Impedance Ω 24 Awg.- 120Ω

Color Code	
Pair No.	Colors
1	Blue- White
2	Orange- White
JACKET: Gray	

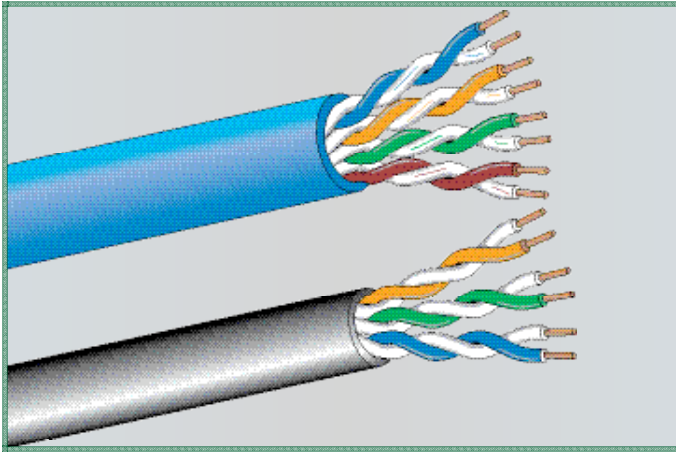
- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Teflon®- Dupont Tradename for FEP-Fluorinated Ethylene Propylene

LAN Cable

WEST PENN WIRE



West Penn Wire Local Area Network (LAN) Cable is designed to meet the requirements of TIA/EIA Networking Cabling Standards.

West Penn Wire engineers have designed this LAN cable to meet the most demanding application requirements, such as fast rise-time, low signal distortion, high transmission rates and small propagation delay. Manufacturing this type of cable requires expert engineering and careful selection of materials that meet the stringent requirements of FCC regulations.

For more detailed information on our LAN Cables, contact our Customer Service Department at: **1-800-245-4964**, or e-mail us at sales@westpenn-wpw.com. Information can also be found on our website- www.westpenn-wpw.com

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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

LAN Cable

WEST PENN WIRE



LAN Cables 2 & 3 Pair Category 3

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- Unshielded Twisted Pair Construction • Overall Jacket

Rating:

- NEC Type CM and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685 and NFPA262 Smoke & Flame Test
- Meets Category 3- TIA/EIA 568A

Applications:

- Indoor for:
- Analog and Digital Voice
 - ISDN
 - Digital Integration
 - Ethernet 10BaseT

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
WP54982	2 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.118	CM	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Gray
WP54983	3 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.155	CM	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Gray
WP54980	3 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None UTP	Plenum Thermo-Plastic	.141	CMP	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Gray

Electrical Specifications

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
JACKET: Gray		

Frequency (MHz)	Attenuation Max dB/1000'	Crosstalk NEXT dB/1000'
.064	2.80	--
.150	--	54
.256	4.00	--
.512	5.60	--
.772	6.80	40
1.00	7.80	41
4.00	17.00	32
8.00	26.00	28
10.00	30.00	26
16.00	40.00	23

LAN Cable

LAN Cables

2 & 3 Pair Category 5

Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 10BaseT



Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- Unshielded Twisted Pair Construction • Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- Meets Category 5- TIA/EIA 568A

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
WP55253	2 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Polyolefin .008	None UTP	PVC	.161	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray
WP55826	2 Pair	24 AWG Solid 26 Ω/Mft	FEP .008	None UTP	Plenum PVC	.148	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray
WP55254	3 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Polyolefin .008	None UTP	PVC	.178	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray
WP55827	3 Pair	24 AWG Solid 26 Ω/Mft	FEP .008	None UTP	Plenum PVC	.168	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
JACKET: Gray		

LAN Cable

WEST PENN WIRE



LAN Cables

Category 5E - Enhanced - Digital Integration

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- 4 Pair Unshielded Twisted Pair Construction • Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL)-C(UL) Listed • (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2 Cat 5E- Horizontal Cable

Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 100BaseT
- Higher Performance Ethernet Applications



Verified by ETL to TIA/EIA-568-B.2

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4245	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.209	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue
254245	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None UTP	Plenum Thermo-Plastic	.202	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue

Electrical Specifications Category 5E

Freq. (MHz)	Attn. Avg. dB/100m	Crosstalk NEXT dB/100m	Min. ACR dB/100m	Min. PS-NEXT dB/100m	Min. PS-ACR dB/100m	Min. ELFEXT dB/100m	Min. PS-ELFEXT dB/100m	Min. SRL dB
.772	1.6	72.0	72.2	70.0	68.2	--	--	--
1.00	1.8	70.3	70.3	68.3	66.3	67.8	64.8	20.0
4.00	3.6	61.3	59.3	59.3	55.3	55.8	52.8	23.0
8.00	5.2	56.8	53.1	54.8	49.1	49.7	46.7	24.5
10.00	5.8	55.3	50.9	53.3	46.9	47.8	44.8	25.0
16.00	7.3	52.2	46.1	50.2	42.1	43.7	40.7	25.0
20.00	8.3	50.8	43.7	48.8	39.7	41.8	38.8	25.0
25.00	9.3	49.3	41.1	47.3	37.1	39.8	36.8	24.3
31.25	10.4	47.9	38.5	45.9	34.5	37.9	34.9	23.6
62.50	15.1	43.4	29.0	41.4	25.0	31.9	28.9	21.5
100	19.6	40.3	21.3	38.3	17.3	27.8	24.8	20.1
155	25.0	37.4	12.9	35.4	8.9	24.0	21.0	18.8
200	38.8	35.8	7.3	33.8	33	21.8	18.8	18.0

Values above 100MHz are for Engineering Purposes

Physical Characteristics	
Cable Weight	PL- 23 lbs/1000ft NPL- 20 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 67%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Gray, Blue, White		

LAN Cable

LAN Cables

Category 6- Digital Integration



Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 100BaseT
- Higher Performance Ethernet Applications

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • 4 Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL)-C(UL) Listed • (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2-1 Cat 6- Horizontal Cable



Verified by ETL to TIA/EIA-568-B.2

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4246	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.209	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue
254246	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None UTP	Plenum Thermo-Plastic	.202	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue

Electrical Specifications Category 6

Freq. (MHz)	Attn. Avg. dB/100m	Crosstalk NEXT dB/100m	Min. ACR dB/100m	Min. PS-NEXT dB/100m	Min. PS-ACR dB/100m	Min. ELFEXT dB/100m	Min. PS-ELFEXT dB/100m	Min. SRL dB
.772	1.6	76.0	74.2	74.0	72.2	--	--	--
1.00	1.8	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4.00	3.6	65.3	61.5	63.3	59.5	55.8	52.8	23.0
8.00	5.1	60.8	55.5	58.8	53.5	49.7	46.7	24.5
10.00	5.7	59.3	53.3	57.3	51.3	47.8	44.8	25.0
16.00	7.3	56.2	48.6	54.2	46.6	43.7	40.7	25.0
20.00	8.1	54.8	46.3	52.8	44.3	41.8	38.8	25.0
25.00	9.1	53.3	43.8	51.3	41.8	39.8	36.8	24.3
31.25	10.2	51.9	41.2	49.9	39.2	37.9	34.9	23.6
62.50	14.8	47.4	32.0	45.4	30.0	31.9	28.9	21.5
100	19.0	44.3	24.5	42.3	22.5	27.8	24.8	20.1
155	24.2	41.4	16.2	39.4	14.2	24.0	21.0	18.8
200	27.8	39.8	10.8	37.8	8.8	21.8	18.8	18.0
250	31.5	38.3	5.5	36.3	3.5	19.8	16.8	17.3
300	35.0	37.1	.07	35.1	--	18.3	15.3	16.8
350	38.2	36.1	--	34.1	--	16.9	13.9	16.3
400	41.3	35.3	--	33.3	--	15.8	12.8	15.9

Values above 250MHz are for Engineering Purposes

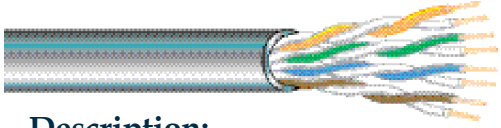
Physical Characteristics	
Cable Weight	PL- 29 lbs/1000ft NPL- 26 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 67%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

JACKET: Grav. Blue. White

LAN Cable

WEST PENN WIRE



LAN Cables

Outside Plant Category 5E & Category 6

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- 4 Pair Unshielded Twisted Pair Construction • Water-Blocking Gel • Overall Jacket

Rating:

- Outdoor Versions - WP57561 & WP57622
- NEC Type CM Indoor/ Outdoor Version M58762
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685 (M58762 Only)

Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 100BaseT
- Higher Performance Ethernet Applications

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
M57561 Category 5E Outdoor	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None Water-Blocking Gel	UV Resistant Polyethylene .020	.251	--	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
M57622 Category 6 Outdoor	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None Water-Blocking Gel	UV Resistant Polyethylene .020	.266	--	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
M58762 Category 5E Indoor/ Outdoor NEW	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Polyolefin .008	None Water-Blocking Gel	Polyolefin .040	.251	CM Indoor/ Outdoor	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black

Physical Characteristics	
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	67%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Black		

NOTES:

M58762- Indoor/ Outdoor CM Rated Cable.
Contains Water-Blocking Gel

LAN Cable

WEST PENN WIRE



LAN Cables

High Pair Count Category 3 Cables

Applications:

Indoor for:

- Analog and Digital Voice
- Voice Backbone Cabling
- Digital Integration

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • Multiple Pair Unshielded Twisted pair construction • Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
M55700 Non-Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	.364	CMR	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray
M55216 Non-Plenum	50 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	.591	CMR	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M55211 Non-Plenum	100 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	.707	CMR	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M55212 Non-Plenum	200 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	1.054	CMR	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56081 Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	.389	CMP	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56126 Plenum	50 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	.550	CMP	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56128 Plenum	100 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	.786	CMP	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56129 Plenum	200 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	1.088	CMP	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray

Physical Characteristics	
Bend Radius	(10 x Cable O.D.)
Nom. Vel. of Prop.	64%
Nom. Impedance Ω	100Ω +/- 15%

Color Code see Page 116

LAN Cable

WEST PENN WIRE



LAN Cables

High Pair Count Category 5E- Enhanced

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum versions
- Multiple Pair Unshielded Twisted Pair Construction
- Overall jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B

Applications:

Indoor for:

- Analog and Digital Voice
- Voice Backbone Cabling
- Digital Integration

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
M58141 Category 5E Non-Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	Polyolefin .008	None UTP	Thermo- Plastic Gray	.470	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Lt. Gray
M58142 Category 5E Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	FEP .008	None UTP	FEP Gray	.430	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Lt. Gray

Color Code

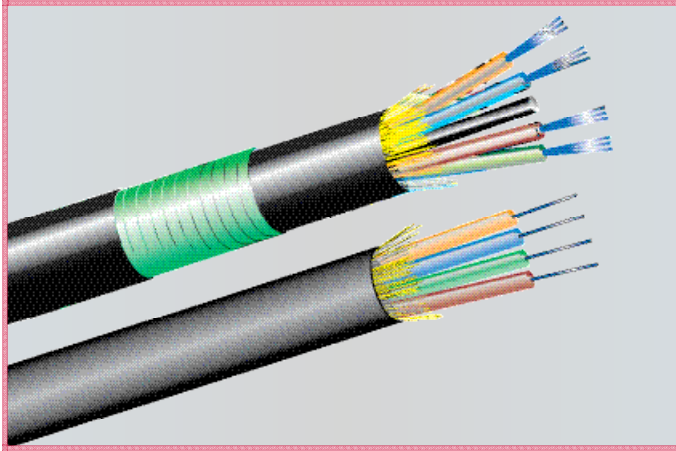
Pair No.	Pair Color Code	
1	White/Blue	Blue-White
2	White/Orange	Orange-White
3	White/Green	Green-White
4	White/Brown	Brown-White
5	White/Gray	Gray-White
6	Red/Blue	Blue-Red
7	Red/Orange	Orange-Red
8	Red/Green	Green-Red
9	Red/Brown	Brown-Red
10	Red/Gray	Gray-Red
11	Black/Blue	Blue-Black
12	Black/Orange	Orange-Black
13	Black/Green	Green-Black
14	Black/Brown	Brown-Black
15	Black/Gray	Gray-Black
16	Yellow/Blue	Blue-Yellow
17	Yellow/Orange	Orange-Yellow
18	Yellow/Green	Green-Yellow
19	Yellow/Brown	Brown-Yellow
20	Yellow/Gray	Gray-Yellow
21	Purple/Blue	Blue-Purple
22	Purple/Orange	Orange-Purple
23	Purple/Green	Green-Purple
24	Purple/Brown	Brown-Purple
25	Purple/Gray	Gray-Purple

Physical Characteristics

Bend Radius	10 x Cable O.D.
Nom. Vel. of Prop.	PL - 72% NPL - 67%
Pulling Tension	150 lbf Max.

Fiber Optic Cable

WEST PENN WIRE



It seems that **West Penn Wire's** reputation as the leading producer of high-quality copper cable all too frequently eclipses the fact that our fiber line is just as impressive...and comprehensive. And Fiber Optic cables are used in all markets that we serve.

The Fiber Optic line includes indoor and outdoor cable products in tight buffered and loose tube constructions.

These cables are categorized as follows:

- Interconnect cable - Simplex and Duplex; Tight Buffer, riser and plenum
- Distribution cable - Tight Buffer, indoor riser, plenum and LSZH
- Breakout Style cable - Tight Buffer, indoor riser, and plenum
- Industrial Armored cable - Tight Buffer, riser and plenum
- Central Tube cable - Loose Tube - Loose Tube, outdoor and outdoor armored
- Indoor/Outdoor tight buffed tube.



For more detailed information on our Fiber Optic cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at **sales@westpenn-wpw.com**. Web site: **www.westpenn-wpw.com**

Mini Index

Indoor Fiber Optic Cables

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Simplex & Duplex/ Plenum	121
Distribution / Riser	122
Distribution Plenum	123
Breakout fiber/ Riser	124
Breakout fiber Plenum	125

Outdoor Fiber Optic Cables

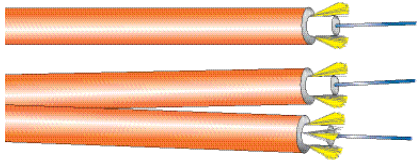
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Indoor/ Outdoor Fiber Optic Cables

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Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable Simplex and Duplex Cable/ Riser 2.8mm Diameter

Applications:

- Patch Cables
- Short Run Office Wiring
- Computer room wiring

Description:

- 900µm tight buffered fibers
- Color Coded for easy termination
- Flame Retardant
- UL listed for code compliance

Rating:

- NEC Type **OFNR**
- Flame Rating: UL1666



Catalog No.	Glass Type	No. of Fibers	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
M9A001	50/125µm	1	1.7 inch 4.2 cm	1.1 inch 2.8 cm	90lbs. 400 Newtons
M9B001	62.5/125µm	1	1.7 inch 4.2 cm	1.1 inch 2.8 cm	90lbs. 400 Newtons
M93001	8/125µm	1	1.7 inch 4.2 cm	1.1 inch 2.8 cm	90lbs. 400 Newtons
M9A002	50/125µm	2	1.7 inch 4.2 cm	1.1 inch 2.8 cm	180lbs. 800 Newtons
M9B002	62.5/125µm	2	1.7 inch 4.2 cm	1.1 inch 2.8 cm	180lbs. 800 Newtons
M93002	8/125µm	2	1.7 inch 4.2 cm	1.1 inch 2.8 cm	180lbs. 800 Newtons

Now Available:

Fiber optic connectors, cable assemblies and accessories. For more information see our Accessories section.

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

West Penn Wire fiber products are manufactured at our Massachusetts plant and at times are made to order. West Penn Wire fiber products cannot be combined with shipments from any other warehouse

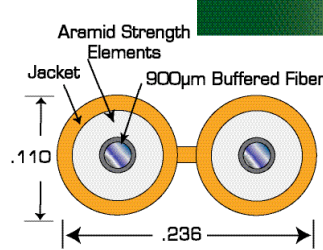
Fiber Optic Cable

Fiber Optic Cables

Simplex and Duplex Cable/ Plenum
2.8mm Diameter

Applications:

- Patch Cables
- Short Run Office Wiring
- Computer room wiring



WEST PENN WIRE

Description:

- 900µm tight buffered fibers
- Color Coded for easy termination
- Flame Retardant
- UL listed for code compliance

Rating:

- NEC Type **OFNP**
- Flame Rating: NFPA262 Smoke and Flame Test

Catalog No.	Glass Type	No. of Fibers	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
M9A003 †	50/125µm	1	1.7 inch 4.2 cm	1.1 inch 2.8 cm	90lbs. 400 Newtons
M9B003 †	62.5/125µm	1	1.7 inch 4.2 cm	1.1 inch 2.8 cm	90lbs. 400 Newtons
M9A004 †	50/125µm	2	1.7 inch 4.2 cm	1.1 inch 2.8 cm	180lbs. 800 Newtons
M9B004 †	62.5/125µm	2	1.7 inch 4.2 cm	1.1 inch 2.8 cm	180lbs. 800 Newtons

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application - [Page 120](#)

West Penn Wire fiber products are manufactured at our Massachusetts plant and at times are made to order. West Penn Wire fiber products cannot be combined with shipments from any other warehouse



Optimax Installation Kit

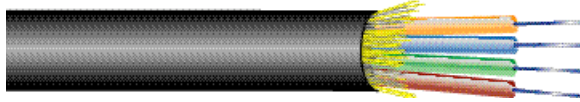
West Penn Wire Offers a complete line of Fiber Optic Installation Accessories.

- Optimax Installation Kits
- ST/ SC and LC Connectors
- Fiber Optic Cable Assemblies
- Fiber Optic Testing Equipment

SEE OUR ACCESSORIES SECTION FOR SPECIFIC INFORMATION AND PART NUMBERS.

Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable
Distribution Cable/ Riser
Individual Fibers with Overall Jacket

Applications:

- Riser Wiring
- Office Wiring
- Computer Room Wiring

Description:

- 900µm tight buffered fibers • Color Coded for easy termination • Flame Retardant • UL listed for code compliance

Rating:

- NEC Type **OFNR**
- Flame Rating: UL1666



Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X037 †	2	.184	2.8 inch 7.0 cm	1.8 inch 4.7 cm	180 lbs. 801 Newtons
M9X038 †	4	.200	3.0 inch 7.6 cm	2.0 inch 5.1 cm	180 lbs. 801 Newtons
M9X039 †	6	.220	3.3 inch 8.4 cm	2.2 inch 5.6 cm	270 lbs. 1201 Newtons
M9X040 †	8	.235	3.5 inch 8.9 cm	2.4 inch 6.1 cm	270 lbs. 1201 Newtons
M9X042 †	12	.255	3.8 inch 9.6 cm	2.6 inch 6.6 cm	300 lbs. 1334 Newtons
M9X602 †	24	.496	7.4 inch 18.8 cm	5.0 inch 12.7 cm	960 lbs. 4270 Newtons
M9X604 †	36	.627	9.4 inch 23.9 cm	6.3 inch 16.0 cm	945 lbs. 4203 Newtons
M9X606 †	48	.644	9.7 inch 24.6 cm	6.4 inch 16.5 cm	1440 lbs. 6405 Newtons

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:
† - See Optical Characteristics Chart for selecting proper Part No. for your application

When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X038 WP9A038 = 4 Fiber 50/125 fiber Cables



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Fiber Optic Cable

WEST PENN WIRE

Fiber Optic Cables

Distribution Cable/ Plenum

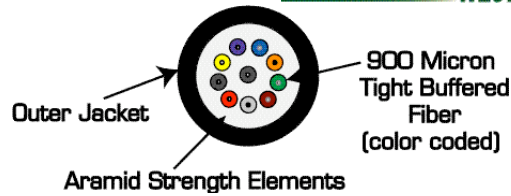
Individual Fiber with Overall Jackets

Applications:

- Riser & Plenum Wiring
- Office Wiring
- Computer Room Wiring

Rating:

- NEC Type **OFNP**
- Flame Rating: NFPA262 Smoke and Flame Test



Description:

- 900µm tight buffered fibers
- Color Coded for easy termination
- Flame Retardant
- UL listed for code compliance

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius	Min Bend radius	Max. Load Installation
		Inches	Short Term	Long Term	
M9X043 †	2	.184	2.8 inch 7.0 cm	1.8 inch 4.7 cm	180 lbs. 801 Newtons
M9X044 †	4	.184	2.8 inch 7.0 cm	1.8 inch 4.7 cm	195 lbs. 867 Newtons
M9X045 †	6	.200	3.0 inch 7.6 cm	2.0 inch 5.1 cm	270 lbs. 1201 Newtons
M9X046 †	8	.222	3.3 inch 8.5 cm	2.2 inch 5.6 cm	270 lbs. 1201 Newtons
M9X048 †	12	.225	3.4 inch 8.6 cm	2.3 inch 5.8 cm	300 lbs. 1334 Newtons
M9X612 †	24	.498	7.5 inch 19.0 cm	5.0 inch 12.6 cm	1263 lbs. 5618 Newtons
M9X614 †	36	.604	9.2 inch 23.4 cm	6.1 inch 15.6 cm	1913 lbs. 8509 Newtons
M9X616 †	48	.615	9.2 inch 23.4 cm	6.1 inch 15.6 cm	1245 lbs. 5538 Newtons

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X044 WP93044 = 4 Fiber 8/125 fiber Cables



Optical Characteristics

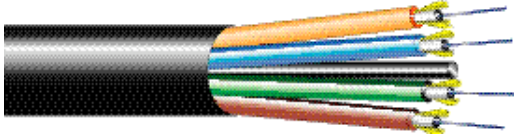
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

plus
CORNING
Optical Fiber

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Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable

Breakout Cable/ Riser
Individual 2.0mm - Sub-unit Jackets

Applications:

- Riser Wiring
- Office Wiring
- Computer Room Wiring

Description:

- 900µm tight buffered fibers • Color Coded for easy termination • Flame Retardant • UL listed for code compliance • Individual Sub-unit Jackets



Rating:

- NEC Type **OFNR**
- Flame Rating: UL1666

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius	Min Bend radius	Max. Load Installation
		Inches	Short Term	Long Term	
M9X005 †	2	.260	3.9 inch 9.9 cm	2.6 inch 6.6 cm	180 lbs. 801 Newtons
M9X006 †	4	.321	4.8 inch 12.2 cm	3.3 inch 8.1 cm	345 lbs. 1535 Newtons
M9X007 †	6	.358	5.4 inch 13.6 cm	3.6 inch 9.1 cm	543 lbs. 2415 Newtons
M9X008 †	8	.405	6.1 inch 15.4 cm	4.1 inch 10.3 cm	600 lbs. 2700 Newtons
M9X009 †	10	.454	6.8 inch 17.3 cm	4.5 inch 11.5 cm	600 lbs. 2700 Newtons
M9X010 †	12	.514	7.7 inch 19.6 cm	5.1 inch 13.1 cm	600 lbs. 2700 Newtons
M9X011 †	18	.520	7.7 inch 19.6 cm	5.1 inch 13.1 cm	600 lbs. 2700 Newtons
M9X012 †	24	.590	8.9 inch 22.6 cm	5.9 inch 15.0 cm	600 lbs. 2700 Newtons
M9X083 †	36	.680	10.2 inch 25.9 cm	6.8 inch 17.3 cm	600 lbs. 2700 Newtons

Optical Characteristics

Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X006 WP9B006 = 4 Fiber 62.5/125 fiber Cables



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Fiber Optic Cable

WEST PENN WIRE

Fiber Optic Cables

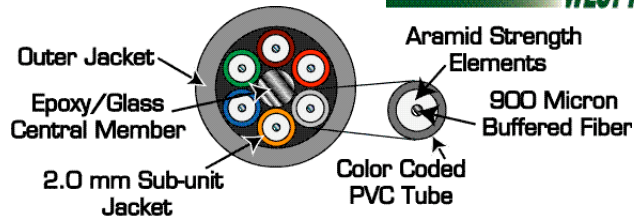
Breakout Cable/ Plenum
Individual 2.0mm- Sub-unit Jackets

Applications:

- Riser & Plenum Wiring
- Office Wiring
- Computer Room Wiring

Rating:

- NEC Type **OFNP**
- Flame Rating: NFPA262 Smoke and Flame Test



Description:

- 900µm tight buffered fibers
- Color Coded for easy termination
- Flame Retardant
- UL listed for code compliance
- Individual Sub-unit Jackets

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X013 †	2	.230	3.5 inch 8.9 cm	2.3 inch 5.8 cm	180 lbs. 801 Newtons
M9X014 †	4	.263	3.9 inch 9.9 cm	2.6 inch 6.6 cm	345 lbs. 1535 Newtons
M9X015 †	6	.280	4.2 inch 10.7 cm	2.8 inch 7.1 cm	534 lbs. 2415 Newtons
M9X016 †	8	.336	5.1 inch 13.0 cm	3.4 inch 8.7 cm	600 lbs. 2700 Newtons
M9X017 †	10	.385	5.8 inch 14.7 cm	3.9 inch 9.8 cm	600 lbs. 2700 Newtons
M9X018 †	12	.440	6.6 inch 16.8 cm	4.4 inch 11.2 cm	600 lbs. 2700 Newtons
M9X019 †	18	.450	6.8 inch 17.3 cm	4.5 inch 11.4 cm	600 lbs. 2700 Newtons
M9X020 †	24	.538	8.1 inch 20.6 cm	5.4 inch 13.7 cm	600 lbs. 2700 Newtons
M9X082 †	36	.620	9.3 inch 23.6 cm	6.2 inch 15.7 cm	600 lbs. 2700 Newtons

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

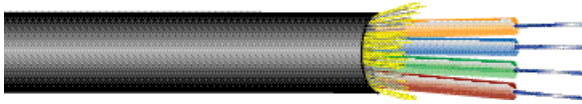
When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X014 WP93014 = 4 Fiber 8/125 fiber Cables

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Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable Central Tube & Loose-Tube Cable Outdoor

Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings

Description:

- Available in several fiber counts
- All dielectric central strength member
- Excellent attenuation performance
- Water-blocking gel for moisture protection
- Water-blocking overall tape
- Polyethylene jacket for weather and UV protection

Rating

- Outdoor

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X150†	2	.325	6.5 inch 16.5 cm	4.9 inch 12.45 cm	600 lbs. 2700 Newtons
	Central Tube Design				
M9X151†	4	.325	6.5 inch 16.5 cm	4.9 inch 12.45 cm	600 lbs. 2700 Newtons
	Central Tube Design				
M9X152†	6	.325	6.5 inch 16.5 cm	4.9 inch 12.45 cm	600 lbs. 2700 Newtons
	Central Tube Design				
M9X155†	12	.325	6.5 inch 16.5 cm	4.9 inch 12.45 cm	600 lbs. 2700 Newtons
	Central Tube Design				
M9X500T†	24	.375	7.5 inch 19.1 cm	5.6 inch 14.3 cm	600 lbs. 2700 Newtons
	6 Fiber Per Tube				
M9X502T†	36	.375	7.5 inch 19.1 cm	5.6 inch 14.3 cm	600 lbs. 2700 Newtons
	6 Fiber Per Tube				
M9X505T†	48	.475	9.5 inch 24.1 cm	7.1 inch 18.1 cm	600 lbs. 2700 Newtons
	12 Fiber Per Tube				

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X058T WP9B058T = 2 Fiber 62.5/125 fiber Cables



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Fiber Optic Cable

WEST PENN WIRE

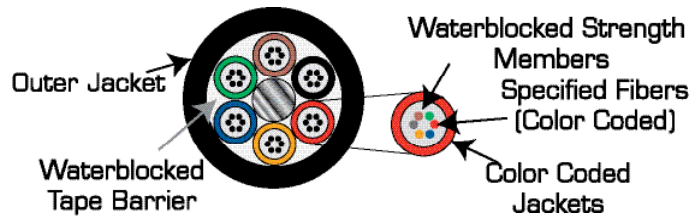
Fiber Optic Cables Indoor/Outdoor Tight Buffer Distribution Cable

Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings

Rating:

- Indoor/Outdoor Design
- **OFNR**- Riser Rated
- **OFNP**- Plenum Rated
- Fully Water-Blocked TIA455-82 Test



Description:

- 900µm tight buffered fibers
- Color Coded for easy termination
- Flame Retardant
- UL listed for code compliance
- Individual Sub-unit Jackets

NEW

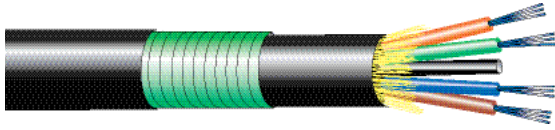
Catalog No.	No. of Fibers	Nom. O.D. Inches	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
M9X045T†	6	.190	3.0 inch 7.6 cm	2.0 inch 5.1 cm	300 lbs. 1335 Newtons
M9X048T†	12	.225	3.4 inch 8.6 cm	2.3 inch 5.8 cm	300 lbs. 1335 Newtons
OFNP M9X611T†	24	.330	4.9 inch 12.4 cm	3.3 inch 8.4 cm	600 lbs. 2700 Newtons
M9X614T†	36	.605	9.1 inch 23.1 cm	6.1 inch 15.4 cm	600 lbs. 2700 Newtons
M9X616T†	48	.610	9.2 inch 23.2 cm	6.1 inch 15.5 cm	600 lbs. 2700 Newtons
M9X039T†	6	.220"	3.3 inch 8.4 cm	2.2 inch 5.6 cm	300 lbs. 1335 Newtons
M9X042T†	12	.255	3.8 inch 9.6 cm	2.6 inch 6.6 cm	300 lbs. 1335 Newtons
OFNR M9X601T†	24	.325	4.9 inch 12.4 cm	3.3 inch 8.4 cm	600 lbs. 2700 Newtons
M9X604T†	36	.655	9.8 inch 25.0 cm	6.6 inch 16.6 cm	600 lbs. 2700 Newtons
M9X606T†	48	.638	9.6 inch 24.3 cm	6.4 inch 16.2 cm	600 lbs. 2700 Newtons

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Notes:
† - See Optical Characteristics Chart for selecting proper Part No. for your application - **PG. 128**

Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable Armored Central Tube Cable Outdoor - Direct Burial

Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings



Description:

- Available in several fiber counts
- All dielectric central strength member
- Excellent attenuation performance
- Water-blocking gel for moisture protection
- Water-blocking overall tape
- Armored barrier
- Polyethylene jacket for weather and UV protection

Rating:

- Outdoor- Direct Burial

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X170†	2	.410	8.2 inch 20.8 cm	6.15 inch 15.6 cm	600 lbs. 2700 Newtons
	Central Tube Design				
M9X171†	4	.410	8.2 inch 20.8 cm	6.15 inch 15.6 cm	600 lbs. 2700 Newtons
	Central Tube Design				

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X358T WP9B358T = 2 Fiber 62.5/125 fiber Cables



Fiber Optic Cable

WEST PENN WIRE

Fiber Optic Cables

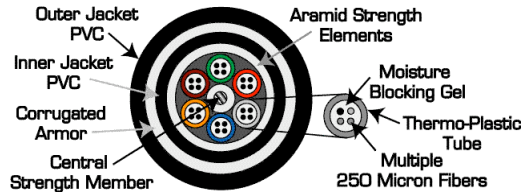
Armored Loose-Tube Cable
Outdoor - Direct Burial

Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings

Rating:

Outdoor - Direct Burial



Description:

- Available in several fiber counts
- All dielectric central strength member
- Excellent attenuation performance
- Water-blocking gel for moisture protection
- Water-blocking overall tape
- Armored barrier
- Polyethylene jacket for weather and UV protection

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X381T†	6	.530	10.6 inch 26.9 cm	8.0 inch 20.2 cm	600 lbs. 2700 Newtons
	6 Fiber Per Tube				
M9X382T†	12	.530	10.6 inch 26.9 cm	8.0 inch 20.2 cm	600 lbs. 2700 Newtons
	6 Fiber Per Tube				
M9X384T†	24	.530	10.6 inch 26.9 cm	8.0 inch 20.2 cm	600 lbs. 2700 Newtons
	6 Fiber Per Tube				
M9X386T†	36	.530	10.6 inch 26.9 cm	8.0 inch 20.2 cm	600 lbs. 2700 Newtons
	6 Fiber Per Tube				
M9X389T†	48	.610	12.2 inch 31.0 cm	9.2 inch 23.2 cm	600 lbs. 2700 Newtons
	12 Fiber Per Tube				
M9X391T†	72	.610	12.2 inch 31.0 cm	9.2 inch 23.2 cm	600 lbs. 2700 Newtons
	12 Fiber Per Tube				
M9X398T†	96	.690	13.8 inch 35.1 cm	10.4 inch 26.4 cm	600 lbs. 2700 Newtons
	12 Fiber Per Tube				
M9X393T†	144	.870	17.4 inch 44.2 cm	13.1 inch 33.3 cm	600 lbs. 2700 Newtons
	12 Fiber Per Tube				

Notes:

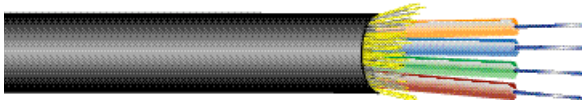
† - See Optical Characteristics Chart for selecting proper Part No. for your application - Page 128



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Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable Riserlite™ Loose-Tube 250µm Cable Indoor/Outdoor

Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings



Description:

- Available in several fiber counts
- All dielectric central strength member
- Excellent attenuation performance
- Water-blocking gel for moisture protection
- PVC jacket for weather and UV protection

Rating:

- Indoor/Outdoor - **OFNR**

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X810 †	6	.380	7.6 inch 19.3 cm	5.7 inch 14.5 cm	600 lbs. 2700 Newtons
M9X811 †	12	.380	7.6 inch 19.3 cm	5.7 inch 14.5 cm	600 lbs. 2700 Newtons
M9X812 †	24	.380	7.6 inch 19.3 cm	5.7 inch 14.5 cm	600 lbs. 2700 Newtons
M9X813 †	36	.380	7.6 inch 19.3 cm	5.7 inch 14.5 cm	600 lbs. 2700 Newtons
M9X814 †	48	.480	9.6 inch 24.3 cm	7.2 inch 18.3 cm	600 lbs. 2700 Newtons
M9X815 †	72	.480	9.6 inch 24.3 cm	7.2 inch 18.3 cm	600 lbs. 2700 Newtons
M9X816 †	96	.547	10.9 inch 27.7 cm	8.2 inch 20.7 cm	600 lbs. 2700 Newtons
M9X817 †	144	.700	14.0 inch 35.6 cm	10.5 inch 26.5 cm	600 lbs. 2700 Newtons

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X810T WP9B810T = 6 Fiber 62.5/125 fiber Cables

Fiber Optic Cable

WEST PENN WIRE

Fiber Optic Cables

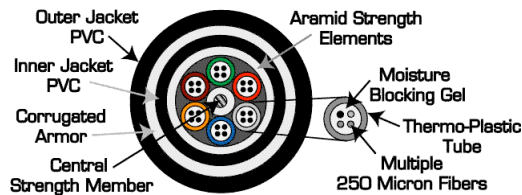
Riserlite™ Armored Loose-Tube Cable
Indoor/Outdoor - Direct Burial

Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings

Rating:

Indoor/ Outdoor - **OFCR**



Description:

- Available in several fiber counts
- All dielectric central strength member
- Excellent attenuation performance
- Water-blocking gel for moisture protection
- Armored barrier
- PVC jacket for weather and UV protection

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X890 †	6	.540	10.8 inch 27.4 cm	8.1 inch 20.6 cm	600 lbs. 2700 Newtons
M9X891 †	12	.540	10.8 inch 27.4 cm	8.1 inch 20.6 cm	600 lbs. 2700 Newtons
M9X892 †	24	.540	10.8 inch 27.4 cm	8.1 inch 20.6 cm	600 lbs. 2700 Newtons
M9X893 †	36	.540	10.8 inch 27.4 cm	8.1 inch 20.6 cm	600 lbs. 2700 Newtons
M9X894 †	48	.660	13.2 inch 33.5 cm	9.9 inch 25.1 cm	600 lbs. 2700 Newtons
M9X895 †	72	.660	13.2 inch 33.5 cm	9.9 inch 25.1 cm	600 lbs. 2700 Newtons
M9X896 †	96	.700	14.0 inch 35.6 cm	10.5 inch 26.7 cm	600 lbs. 2700 Newtons
M9X897 †	144	.880	17.6 inch 44.7 cm	13.2 inch 33.5 cm	600 lbs. 2700 Newtons

Notes:

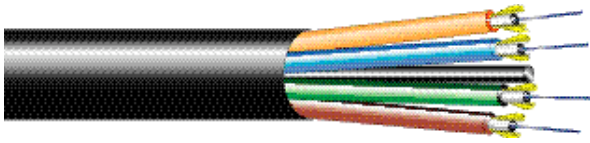
† - See Optical Characteristics Chart for selecting proper Part No. for your application- [Page 130](#)



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Fiber Optic Cable

WEST PENN WIRE



Fiber Optic Cable

Versalite™ Plenum
Indoor/Outdoor

Description:

- Available in several fiber counts
- All dielectric central strength member
- Excellent attenuation performance
- Water-blocking gel for moisture protection
- PVC jacket for weather and UV protection

Rating:

- Indoor/Outdoor - **OFNP**



Applications:

- Building interconnection
- Telecommunication and Data
- Long haul networking
- Ducts between buildings

Catalog No.	No. of Fibers	Nom. O.D.	Min Bend radius Short Term	Min Bend radius Long Term	Max. Load Installation
		Inches			
M9X202 †	6	.265	5.3 inch 13.5 cm	4.0 inch 10.2 cm	320 lbs. 1423 Newtons
M9X204 †	12	.265	5.3 inch 13.5 cm	4.0 inch 10.2 cm	320 lbs. 1423 Newtons
M9X205 †	24	.359	7.2 inch 18.3 cm	5.4 inch 13.7 cm	405 lbs. 1801 Newtons
M9X206 †	36	.359	7.2 inch 18.3 cm	5.4 inch 13.7 cm	405 lbs. 1801 Newtons
M9X207 †	48	.359	7.2 inch 18.3 cm	5.4 inch 13.7 cm	405 lbs. 1801 Newtons
M9X209 †	72	.429	8.6 inch 21.8 cm	6.4 inch 16.3 cm	585 lbs. 2602 Newtons
M9X211 †	96	.501	10.0 inch 25.4 cm	7.5 inch 19.1 cm	903 lbs. 4017 Newtons
M9X215 †	144	.665	13.3 inch 33.8 cm	10.0 inch 25.4 cm	1263 lbs. 5618 Newtons

Optical Characteristics				
Glass Type	Code (X)	Operating Wavelength (nm)	Min. Bandwidth (MHz-km)	Max. Attn. (dB-km)
50/125µm MultiMode	A	850nm/1300nm	500/500	3.50/1.25
62.5/125µm MultiMode	B	850nm/1300nm	200/500	3.50/1.25
8/125µm SingleMode	3	1300nm/1550nm	--	.80/.50

Notes:

† - See Optical Characteristics Chart for selecting proper Part No. for your application

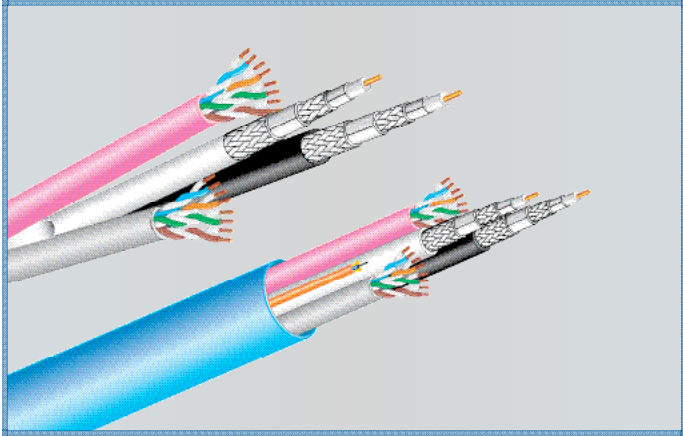
When ordering: In ordering to specify the correct optical fiber, replace "X" in catalog number with the proper code number.

Example: WP9X202 WP9B202 = 6 Fiber 62.5/125 fiber Cables

West Penn Wire fiber products are manufactured at our Massachusetts plant and at times are made to order. West Penn Wire fiber products cannot be combined with shipments from any other warehouse

Residential Cables

WEST PENN WIRE



West Penn Wire takes great pride in constructing the Home Networking line of cables. The same quality cables that **West Penn Wire** manufactures can now be installed in your home with our Residential line of cables.

West Penn Wire also has high performance cables that you may want for your home. Ranging from video to data, these cables are coax and twisted pairs:

- Cat 5E, Cat 6 UTP and fiber cables for voice, video and data.
- Series 6 and Series 59 video coax cables are for HDTV, DBS, CATV, SVHS, CCTV and cable modem applications.
- Home speaker cables for audio distribution.
- We also offer unshielded pairs for security and alarm ventures.

Our Lickity Split Bondled Composite Cables can be installed in a lot less time. These composite Cables feature a design that eliminates the need for an overall jacket. This makes the cable easier to handle, install, identify and terminate. A specialized material that is spread out every 4-7 inches attaches these cables to each other. Also with no jacket, it helps the overall bend radius for installations.

For more detailed information on our Residential cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at: sales@westpenn-wpw.com. You can also get more specific information on our web-site: www.westpenn-wpw.com

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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Residential Cables

WEST PENN WIRE



Home Speaker Cable

Two Conductor / Unshielded

Applications:

Indoor for:

- Home Entertainment
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Description:

- ASTM Bare Copper • PVC insulation • Short overall twist lengths
- Overall PVC jacket

Rating:

- NEC Type CL2
- (UL) or (ETL)us Listed
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
HA225	2	16 AWG (26x30) BC 4.2 Ω/Mft	PVC .010	None	PVC .015	.199	CL2	--	White, Blue
HA226	2	14 AWG (41x30) BC 2.7 Ω/Mft	PVC .014	None	PVC .015	.245	CL2	--	White
HA227	2	12 AWG (65x30) BC 1.7 Ω/Mft	PVC .014	None	PVC .015	.280	CL2	--	White

Color Code	
Catalog No.	HA225, HA226, HA227
Primary Color Code	Black, Red

Residential Cables

WEST PENN WIRE

Home Speaker Cable

Four Conductor / Unshielded

Applications:

Indoor for:

- Home Entertainment
- Sound and Audio
- Background Music
- Power-limited Control Circuits



Description:

- ASTM Bare Copper • PVC insulation • Cabled Construction
- Overall PVC jacket

Rating:

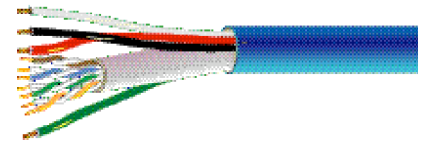
- NEC Type CL2
- (UL) or (ETL)us Listed
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness		Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
					Inches	Inches				
HA245	4	16 AWG (26x30) BC 4.2 Ω/Mft	PVC .010	None	PVC .015	.228	CL2	--	White	
HA246	4	14 AWG (41x30) BC 2.7 Ω/Mft	PVC .014	None	PVC .015	.295	CL2	--	White	

Color Code	
Catalog No.	HA245, HA246
Primary Color Code	Black, Red, White, Green

Keypad with Volume Controls



Rating:

- NEC Type CM
- (UL) Listed
- Flame Rating: UL1685

Standard spool size 1000ft.

Description:

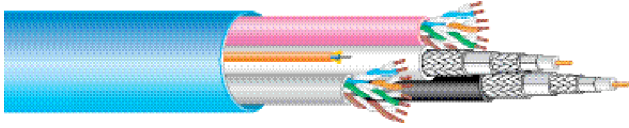
- ASTM Bare Copper • PVC Insulation • Composite cable construction • 4 Pair 24 Awg. Category 5E cable + 4 conductor 16 AWG • Overall Blue PVC jacket

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness		Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
					Inches	Inches				
HA1624	4 Cond.	16 AWG (26x30)	.010	None	PVC .020	.375	CM	--	14 pf/ft*	Blue
	4 Pair	24 AWG Solid	.008	None						

Color Code	
4 Cond.	1. Black, 2. Red, 3. White, 4. Green
4 Pair	1. Blue/ White-Blue, 2. Orange/ White-Orange, 3.Green/ White-Green, 4. Brown/ White-Brown

Residential Cables

WEST PENN WIRE



HomeNetworking Composite Cable Hybrid Structured Cabling

Applications:

Indoor for:

- Home Entertainment
- Home Structured Cabling
- TIA-EIA 570-A Residential Standard

Description:

- RG6/U Type Coaxial Cables • 4 pair 24 Awg. Category 5E or 4 pair 24 Awg. Category 6 • 62.5/125µm Fiber Optic

Rating:

- NEC Type CM
- (UL) Listed
- Flame Rating: UL1685

Standard spool size 1000ft.

Catalog No.	Cable Description	Overall Jacket & Cable O.D.	
		Inches	Jacket Color
HN5161 CM	1- RG6/U Quad-Shielded Coax Cable 1- 4 Pair Category 5E Cable	PVC Jkt. .525	Blue
HN5261 CM	1- RG6/U Quad-Shielded Coax Cable 2- 4 Pair Category 5E Cable	PVC Jkt. .585	Blue
HN5262 CM	2- RG6/U Quad-Shielded Coax Cable 2- 4 Pair Category 5E Cable	PVC Jkt. .620	Blue
HN5262F CM	2- RG6/U Quad-Shielded Coax Cable 2- 4 Pair Category 5E Cable 2- 62.5/125µm Multi-Mode Fiber Optic Cable	PVC Jkt. .660	Blue
LSHN5161 CM New	1- RG6/U Quad-Shielded Coax Cable 1- 4 Pair Category 5E Cable	.520	Lickity Split Design
LSHN5162 CM New	2- RG6/U Quad-Shielded Coax Cable 1- 4 Pair Category 5E Cable	.590	Lickity Split Design
LSHN5262 CM	2- RG6/U Quad-Shielded Coax Cable 2- 4 Pair Category 5E Cable	.610	Lickity Split Design
LSHN6262 CM New	2- RG6/U Quad-Shielded Coax Cable 2- 4 Pair Category 6 Cable	.620	Lickity Split Design
LSHN6262F CM New	2- RG6/U Quad-Shielded Coax Cable 2- 4 Pair Category 6 Cable 2- 62.5/125µm Multi-Mode Fiber Optic Cable	.625	Lickity Split Design

Note:

Minimum quantities may apply on selected items.

Cable Specification			
Cable	RG6/U Quad-Shield	Category 5E Category 6	62.5/125µm Fiber Optic
Cable Specs.	See Pg. 62	Cat 5E - See Pg.112 Cat 6- See Pg.113	See Pg.118



Residential Cables

WEST PENN WIRE

Media Control Cable Specialized Control Systems

Applications:

Indoor for:

- Home Control Systems
- Commercial Control Systems
- Sound and Audio

Rating:

- NEC Type CMR and CMP
- (UL) C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA 262 Smoke & Flame Test



Description:

- ASTM Bare Copper • Foam Polyolefin Insulation (Data Pair), PVC (Control Pair) • Short overall twist lengths
- (Data Pair) Overall shield 100% coverage of aluminum polyester foil with drain wire, (Control Pair) Unshielded
- Overall PVC Jacket

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
77350	4 (2 Shld)	22 AWG (7x30)	Polyolefin .025	Al. Foil- 100% drain wire	PVC .030	.255	CMR	12.5 pf/ft*	Yellow
	(2 Unshld)	18 AWG (7x26)	.010	None				22.5 pf/ft**	

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield



Description:

- ASTM Bare Copper • Foam FEP Insulation (Data Pair), Fluoropolymer Insulation (Control Pair) • Short overall twist lengths • (Data Pair) Overall shield 100% coverage of aluminum polyester foil with drain wire, (Control Pair) Unshielded • Overall Copolymer Jacket

Standard spool size 1000ft.

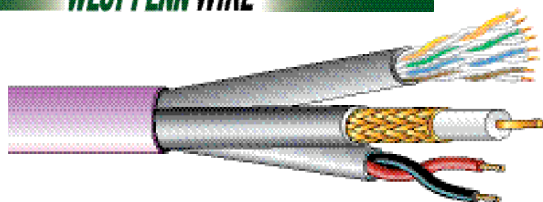
Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
D25350	4 (2 Shld)	22 AWG (7x30)	Foam FEP .022	Al. Foil- 100% drain wire	Copolymer .010	.196	CMP	12.5 pf/ft*	Black
	(2 Unshld)	18 AWG (7x26)	Fluoro-polymer .007	None				22.5 pf/ft**	

Color Code

Catalog No.	77350	D25350
Primary Colors	22 Awg Pair: Blue/White 18 Awg Control: Red/Black	22 Awg Pair: Blue/White 18 Awg Control: Red/Black

Residential Cables

WEST PENN WIRE



Media Control Cable Specialized Control Systems

Applications:

Indoor for:

- Home Control Systems
- Commercial Control Systems
- Sound and Audio

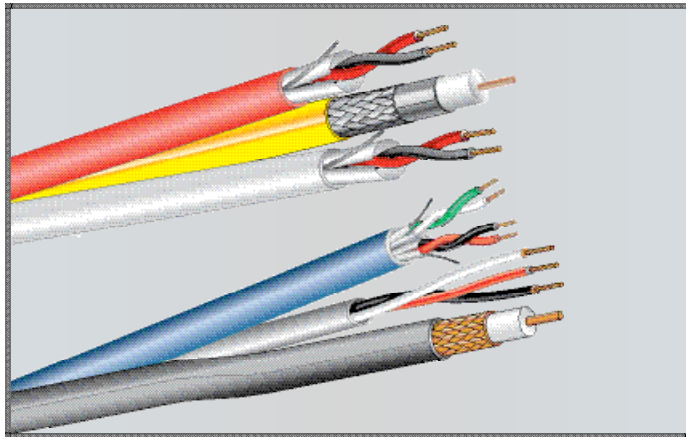
Rating:

- NEC Type CM
- (UL) Listed
- Flame Rating: UL1685

Standard pool size 1000ft.

Catalog No.	Cable Description	Overall Jacket & Cable O.D.	Jacket Color
		Inches	
C2415 CM	1- 77350 Media Control Cable (Yellow Jacket) + 1- 4 Pair 24 AWG Category 5E Cable (Gray Jacket) Overall PVC Jacket	PVC Jkt. .485	Yellow
C2425 CM	1- 77350 Media Control Cable (Yellow Jacket) + 2- 4 Pair 24 AWG Category 5E Cable (Pink and Gray Jacket) Overall PVC Jacket	PVC Jkt. .500	Yellow
E1854 CM	1- Control Cable (2 Cond 18 Awg. Unshielded) Gray Jacket + 1- 4 Pair 24 AWG Category 5E Cable (Pink Jacket) + 1- CCTV Cable -RG59/U - 20 AWG Foam Dielectric 95% Bare Copper Braid (Black Jacket) Elan Via! Cable	PVC Jkt. .579	Violet

Special Application Cables



West Penn Wire offers a variety of cables that meet special needs or specific applications. Most of the Special Application Cables manufactured is the result of us listening to you, our customers. In this section you will find a variety of cables including:

- V/Cat - Video over UTP
- Access Control Composite Cables
- PTZ Cables (Pan, Tilt, Zoom)
- Audio/Video Composite Cables
- Lickity Split Designed Access Control Cables, PTZ- Pan Tilt Zoom Cables and Audio/Video Cables.

Our Lickity Split Bondled Composite Cables can be installed in a lot less time. West Penn Wire's composite Cables feature a design that eliminates the need for an overall jacket. This makes the cable easier to handle, install, identify and terminate. A specialized material that is spread out every 4-7 inches attaches these cables to each other. Also with no jacket, it helps the overall bend radius for installations.

For more detailed information on our Special Applications Cables, contact our Customer Service Department at 1-800-245-4964, or e-mail us at sales@westpenn-wpw.com. You can also get more specific information on our web-site. www.westpenn-wpw.com

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Special Application Cables

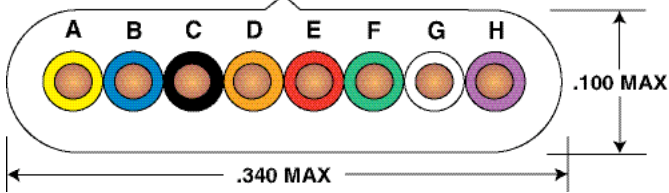
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Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

Special Application Cables

WEST PENN WIRE



Flat Parallel Cable-

Applications:

- Power-Limited Control Circuits

Rating:

- NEC Type CL2
- (UL) or (ETL)us Listed
- Flame Rating: UL1685

Description:

- ASTM Bare Copper • Plenum and Non-Plenum Construction • Unshielded Construction • UL listed for code compliance

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
WP37123	6	24 AWG Solid BC 26.1 Ω/Mft	.0065	None	.024	.090 x .250	CL2	--	Gray
WP37127	8	24 AWG Solid BC 26.1 Ω/Mft	.0065	None	.030	.100 x .340	CL2	--	Gray

Ratings:

- NEC Type CL2P
- (UL) or (ETL)us Listed
- Flame Rating: NFPA 262 Smoke & Flame Test

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	UL Type	Nom. Capacitance	Jacket Color
			Inches		Inches				
WP37125	6	24 AWG Solid BC 26.1 Ω/Mft	.0065	None	.024	.090 x .250	CL2P	--	Gray
WP37129	8	24 AWG Solid BC 26.1 Ω/Mft	.0065	None	.030	.100 x .340	CL2P	--	Gray

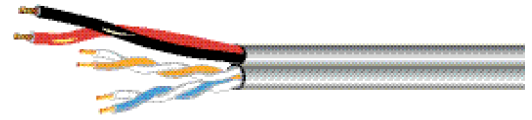
Color Code	
A	Yellow
B	Blue
C	Black
D	Orange
E	Red
F	Green
G	White
H	Violet

Special Application Cables

V-Cat- Video Over UTP Cables

2 Pair + 2 Conductors - Siamese Construction
Non-Plenum and Plenum

WEST PENN WIRE



Applications:

- Video Over UTP

Standard spool size 1000ft.

Catalog No.	NEC Type	Cable Type & Description	Dielectric Type	Jacket type	Nom. O.D.	Nom. Capacitance 2 Pair	Nom. VP 2 Pr.	Nom. Imp.Ω 2 Pair	Jacket Color
					Inches				
CC2418	CM	2 Pair 24 AWG Solid Category 5E Type UTP + 2 Cond. 18 AWG unshielded	Thermo-Plastic	PVC	.180 x .340	14 pf/ft	66%	100Ω	Gray
CC252418 Plenum	CMP	2 Pair 24 AWG Solid Category 5E Type UTP + 2 Cond. 18 AWG Unshielded	Plenum Thermo-Plastic	Plenum Thermo-plastic	.185 x .345	14 pf/ft	66%	100Ω	Gray
CC2416	CM	2 Pair 24 AWG Solid Category 5E Type UTP + 2 Cond. 16 AWG Unshielded	Thermo-Plastic	PVC	.192 x .355	14 pf/ft	69%	100Ω	Gray
CC252416 Plenum	CMP	2 Pair 24 AWG Solid Category 5E Type UTP + 2 Cond. 16 AWG Unshielded	Plenum Thermo-Plastic	Plenum Thermo-plastic	.190 x .350	14 pf/ft	69%	100Ω	Gray

Applications:

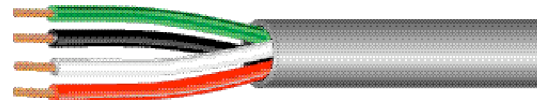
- **Pair 1** - Category 5E type 100Ω - Used for Video Transmission -Blue/White-Blue
- **Pair 2**- Category 5E type 100Ω - Used for Video Transmission or Data Transmission, such as RS-422 or RS-485 or PTZ (Pan, Tilt, Zoom Controls) -White/Orange- Orange
- **Two Conductors**- 18 or 16 Awg. Solid bare copper conductors- Used for Power to the camera- Black and Red

Burglar Wire

Non-Plenum

Rating:

- NEC Type CM **New**



Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches		Inches	Inches			
S221	2	22 AWG (7x30) 17 Ω/Mft	Poly-propylene .008	None	PVC .015	.102	CM	--	Gray, White
S241	4	22 AWG (7x30) 17 Ω/Mft	Poly-propylene .008	None	PVC .015	.129	CM	--	Gray, White

Color Code

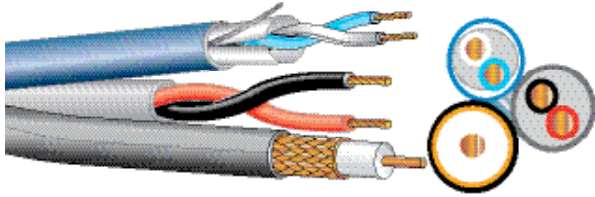
All Cables 1. Black, 2. Red, 3. White, 4. Green

Special Application Cables

WEST PENN WIRE

PTZ Security Video

Minimax & RG59/U Type Composite PTZ (Pan Tilt Zoom)



Applications:

- CCTV/ Data/ Power
- Security Baseband Video
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No. NEC Type	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D.	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
						Inches				
PTZ825	CCTV Coaxial Minimax	25 AWG (Solid) BC 30 Ω/M'	Gas Inj. PE† .085	Bare Copper Braid 95%	PVC	.146	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 22 AWG (7x30) TC	PP† Insulation .008	Al. Foil 100% with drain wire	PVC	.135	34 pf/ft* 67 pf/ft**	66%	55Ω	Blue
CM	Power Control Cable	1 Pair 18 AWG (7x26) BC	PVC .010	None	PVC	.155	--	--	--	Gray

PTZ825 - Nom. O.D. .375"

Catalog No. NEC Type	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D.	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
						Inches				
PTZ815	CCTV Coaxial RG59/U	20 AWG (Solid) BC 10.1 Ω/M'	Gas Inj. PE† .142	Bare Copper Braid 95%	PVC	.232	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 18 AWG (7x26) TC	PE† Insulation .018	Al. Foil 100% with drain wire	PVC	.222	24 pf/ft* 44 pf/ft**	66%	50Ω	Blue
CM	Power Control Cable	1 Pair 18 AWG (7x26) BC	PVC .010	None	PVC	.155	--	--	--	Gray

PTZ815 - Nom. O.D. .451"

Cable Types	Conductor Colors	Jacket Colors
CCTV Coaxial	--	Black
PTZ825 Data Control Cable	1.Black, 2. Red	Blue
PTZ815 Data Control Cable	1.Black, 2. Red	Blue
Power Control Cable	1. Black, 2. Red	Gray

Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%

†- Gas Injected Polyethylene

100% Sweep Tested

PE- Polyethylene

PP- Polypropylene



Special Application Cables

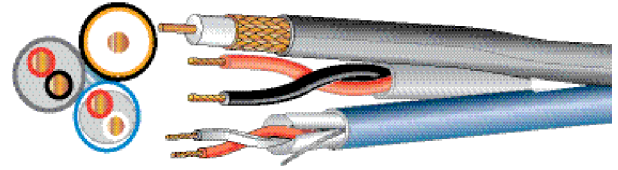
WEST PENN WIRE

PTZ Security Video

Minimax & RG59/U Type Composite PTZ (Pan Tilt Zoom) Plenum

Applications:

- CCTV/ Data/ Power
- Security Baseband Video
- Flame Rating: UL1685



Standard spool size 1000ft.

Catalog No. NEC Type	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
PTZ25825	CCTV Coaxial Minimax	25 AWG (Solid) BC 30 Ω/M	Foam FEP .078	Bare Copper Braid 95%	Plenum PVC	.146	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 22 AWG (7x30) TC	FEP .010	Al. Foil 100% with drain wire	Plenum PVC	.120	25 pf/ft* 45 pf/ft**	69%	55Ω	Blue
CMP	Power Control Cable	1 Pair 18 AWG (7x26) BC	Plenum PVC .010	None	Plenum PVC	.138	--	--	--	Gray

PTZ25825 - Nom. O.D. .342"

Catalog No. NEC Type	Cable Types	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
PTZ25815	CCTV Coaxial RG59/U	20 AWG (Solid) BC 10.1 Ω/M'	FEP .138	Bare Copper Braid 95%	Plenum PVC	.207	16.2 pf/ft	82%	75Ω	Black
	Data Control Cable	1 Pair 18 AWG (7x26) TC	FEP .010	100% Al. Foil with drain wire	Plenum PVC	.148	30 pf/ft* 54 pf/ft**	69%	45Ω	Blue
CMP	Power Control Cable	1 Pair 18 AWG (7x26) BC	Plenum PVC .010	None	Plenum PVC	.138	--	--	--	Gray

PTZ25815 - Nom. O.D. .362"

Cable Types	Conductor Colors	Jacket Colors
CCTV Coaxial	--	Black
Data Control Cable	1.Black, 2. Red	Blue
Power Control Cable	1. Black, 2. Red	Gray



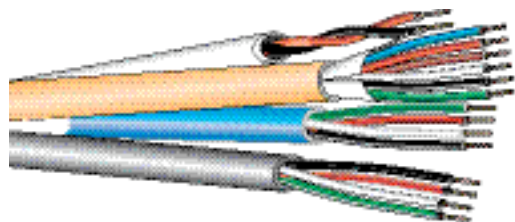
Notes:

Standard Spool size 1000ft, spools are one piece, but lengths may vary +/- 10%
 PE- Polyethylene
 Bifoil is an aluminum polyester aluminum tape with 100% coverage
 100% Sween Tested

Special Application Cables

WEST PENN WIRE

Composite Access Control Cables



Applications:

- Access Control

Standard pool size 1000ft.

Catalog No.	Cable Types	Application	NEC Type	Nom. Jacket O.D. & Color
AC1822	2 Cond 22 AWG 4 Cond. 18 AWG	Door Contact Lock Power	CM	.440"
	4 Cond. 22 AWG 6 Cond. 22 AWG Shielded	Request to Exit Card Reader		Overall PVC Jacket Blue
LS1822	2 Cond 22 AWG 4 Cond. 18 AWG	Door Contact Lock Power	CM	.430"
	4 Cond. 22 AWG 6 Cond. 22 AWG Shielded	Request to Exit Card Reader		Unjacketed Lickity Split Bondled Cable
LS251822	2 Cond 22 AWG 4 Cond. 18 AWG	Door Contact Lock Power	CMP	.430"
	4 Cond. 22 AWG 6 Cond. 22 AWG Shielded	Request to Exit Card Reader		Unjacketed Lickity Split Bondled Cable

Cable Types	Conductor Colors	Jacket Colors
Door Contact	1. Black, 2. Red	White
Lock Power	1. Black, 2. Red, 3. White, 4. Green	Gray
Request to Exit	1. Black, 2. Red, 3. White, 4. Green	Blue
Card Reader	1. Black, 2. Red, 3. White, 4. Green 5. Brown, 6. Blue	Orange

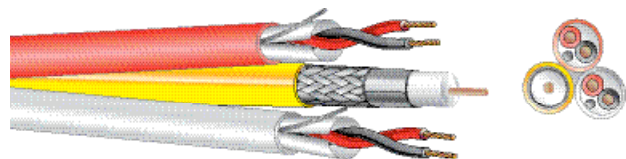


Composite Audio/ Video Cables

Applications:

- Audio and Video

Standard pool size 1000ft.



Catalog No.	Cable Types	Application	Connectors	NEC Type	Nom. Jacket O.D. & Color
LSAV	1- MiniMax SDI Coaxial Cable	Video	CN-CSRCA-25	CM	.316 "
	2- 1 Pair 22 AWG Shielded Cables	Audio	19-1207- Red 19-1268-Black		Unjacketed Lickity Split Bondled Cable
LS25AV	1- MiniMax SDI Plenum Coaxial Cable	Video	CN-CSRCA-25	CMP	.300"
	2- 1 Pair 22 AWG Shielded Cables- Plenum	Audio	19-1207- Red 19-1268-Black		Unjacketed Lickity Split Bondled Cable

Cable Types	Conductor Colors	Jacket Colors
Video Minimax SDI	--	Yellow
Audio Pair 1	1. Black, 2. Red	White
Audio Pair 2	1. Black, 2. Red	Red



Accessories

West Penn Wire has developed the Accessories Section of our Catalog to complement our varying cable products. In this section you will find connectors, crimp tools, strip tools, cable assemblies, fiber optic accessories, wallplates and much more.



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Accessories

Video Cable Assemblies & AV Cables

75 Ω BNC PATCH CABLES			
CAT. NO.	RG SIZE	LENGTH (FT.)	JACKET COLORS
CN-7B815BK-3	RG59/U CCTV	3	BLACK (BK) ONLY
CN-7B815BK-6		6	
CN-7B815BK-10		10	
CN-7B815BK-15		15	
CN-7B815BK-20		20	
CN-7B815BK-25		25	

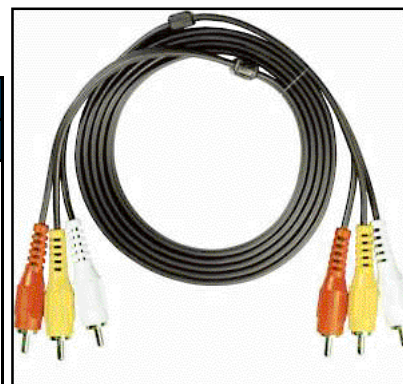


75 Ω BNC PATCH CABLES			
CAT. NO.	RG SIZE	LENGTH (FT.)	JACKET COLORS
CN-7B825**-3	MINIMAX RG/179	3	Replace ** with jacket color • BK • BL • YE • GN • RD • WH
CN-7B825**-6		6	
CN-7B825**-10		10	
CN-7B825**-15		15	
CN-7B825**-20		20	
CN-7B825**-25		25	

75 Ω BNC PATCH CABLES RG59/U			
CAT. NO.	RG SIZE	LENGTH (FT.)	JACKET COLORS
CN-7B819**-3	RG59/U HDTV Digital Video	3	Replace ** with jacket color • BK • BL • YE • GN • RD • WH
CN-7B819**-6		6	
CN-7B819**-10		10	
CN-7B819**-15		15	
CN-7B819**-20		20	
CN-7B819**-25		25	

75 Ω BNC PATCH CABLES RG6/U			
CAT. NO.	RG SIZE	LENGTH (FT.)	JACKET COLORS
CN-7B6350**-3	RG6/U HDTV Digital Video	3	Replace ** with jacket color • BK • BL • YE • GN • RD • WH
CN-7B6350**-6		6	
CN-7B6350**-10		10	
CN-7B6350**-15		15	
CN-7B6350**-20		20	
CN-7B6350**-25		25	

5 Ω BNC PATCH CABLES MiniMax- Plenum			
CAT. NO.	RG SIZE	LENGTH (FT.)	JACKET COLORS
CN-7B25825**-6	Plenum MINIMAX RG/179	6	Replace ** with jacket color • BK • BL • YE • GN • RD • WH
CN-7B25825**-10		10	
CN-7B25825**-15		15	
CN-7B25825**-25		25	
CN-7B25825**-50		50	
CN-7B25825**-75		75	



AV DUBBING CABLES	
CAT. NO.	DESCRIPTION
CN-ERCA-AV3	3 RCA- 3 RCA AV 3 FT.
CN-ERCA-AV6	3 RCA- 3 RCA AV 6 FT.
CN-ERCA-AV12	3 RCA- 3 RCA AV 12 FT.

Accessories

SVHS -Cable Assemblies- Kits- Connectors



SVHS ECONOMY CABLE ASSEMBLIES	
CAT. NO.	LENGTH (FT.)
DTDE-3	3
DTDE-6	6
DTDE-12	12

SVHS SPECIAL APP. CABLE ASSEMBLIES	
CAT. NO.	LENGTH (FT.)
DTBF-ESVHS-1	1
CN-SVHSMT2F	--

DTBF-ESVHS-1- MINI DIN TO BNC FEMALE
CN-SVHSMT2F- MINI DIN TO 2 FEMALE MINI DIN

Catalog No.	Description	Colors	Standard Length (ft)
DTD2825-(Length)	PVC 4 Pin Mini Din to 4 Pin Mini Din	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTB2825-(Length)	PVC 4 Pin Mini Din to 75Ω BNC's	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTD252825-(Length)	Plenum 4 Pin Mini Din to 4 Pin Mini Din	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTB252825-(Length)	Plenum 4 Pin Mini Din to 75Ω BNC's	Jacket: Blue	12, 25, 50, 75, 100, 125,150
DTDE-(Length)	Economy Mini Din to Mini Din	Jacket: Black	3, 6, 12

Catalog No.	Description	Colors	Standard Length (ft)
DTD252CSVHS-(Length)	Plenum 4 Pin Mini Din to 4 Pin Mini Din	Jacket: Black	12, 25, 50, 75, 100, 125,150
DTB252CSVHS-(Length)	Plenum 4 Pin Mini Din to 75Ω BNC's	Jacket: Black	12, 25, 50, 75, 100, 125,150

Broadcast Cable

Install Kits/ SVHS

Kit Components:

- Length of SVHS Cable Connectorized (one end) with 4 Pin Male Mini Din
- 2- 75Ω Male BNC Connector
- 2- Colored Boots
- 1- MiniDin to 2 Female BNC Pigtail



Applications:

- S-Video (SVHS)

Catalog No	Description	Standard Length (ft)
DTBK2825-(Length)	SVHS Install Kit 4 Pin MiniDin to 75Ω BNC or 4 Pin MiniDin Non-Plenum	25, 50, 75, 100, 150
DTBK252825-(Length)	SVHS Install Kit 4 Pin MiniDin to 75Ω BNC or 4 Pin MiniDin Plenum	25, 50, 75, 100, 150

Catalog No.	Description	Standard Length (ft)
DTBK252CSVHS(Length)	SVHS Install Kit 4 Pin MiniDin to 75Ω BNC or 4 Pin MiniDin Plenum	12, 25, 50, 75, 100, 125

SVHS CONNECTORS	
CAT. NO.	DESCRIPTION
CN-SVHS-M	4 PIN MINI DIN SVHS
CN-SVHS-FB	4 PIN MINI DIN SVHS FEED THRU BULKHEAD
CN-MD4FFN	4 PIN MINI DIN SVHS PANEL MOUNT FEED THRU



Accessories

RGB & RCA Cable Assemblies

5 25AWG RGB PVC 75Ω BNC		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-5CRGB-12	5 COAX PVC RGBHV	12
CN-5CRGB-25	5 COAX PVC RGBHV	25
CN-5CRGB-50	5 COAX PVC RGBHV	50
CN-5CRGB-75	5 COAX PVC RGBHV	75
CN-5CRGB-100	5 COAX PVC RGBHV	100

5 25AWG RGB PLENUM 75Ω BNC		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-255CRGB-12	5 COAX Plenum RGBHV	12
CN-255CRGB-25	5 COAX Plenum RGBHV	25
CN-255CRGB-50	5 COAX Plenum RGBHV	50
CN-255CRGB-75	5 COAX Plenum RGBHV	75
CN-255CRGB-100	5 COAX Plenum RGBHV	100

5 RG59/U RGB PVC 75Ω BNC		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-8195-12	5 COAX PVC RGBHV	12
CN-8195-25	5 COAX PVC RGBHV	25
CN-8195-50	5 COAX PVC RGBHV	50
CN-8195-75	5 COAX PVC RGBHV	75
CN-8195-100	5 COAX PVC RGBHV	100
CN-8195-150	5 COAX PVC RGBHV	150

5 RG59/U RGB PLENUM 75Ω BNC		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-258195-12	5 COAX Plenum RGBHV	12
CN-258195-25	5 COAX Plenum RGBHV	25
CN-258195-50	5 COAX Plenum RGBHV	50
CN-258195-75	5 COAX Plenum RGBHV	75
CN-258195-100	5 COAX Plenum RGBHV	100
CN-258195-150	5 COAX Plenum RGBHV	150

5 R6/U RGB PVC 75Ω BNC		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-6355-12	5 COAX PVC RGBHV	12
CN-6355-25	5 COAX PVC RGBHV	25
CN-6355-50	5 COAX PVC RGBHV	50
CN-6355-75	5 COAX PVC RGBHV	75
CN-6355-100	5 COAX PVC RGBHV	100
CN-6355-150	5 COAX PVC RGBHV	150



PLENUM HIGH FLEX. 3 COAX RGB 75Ω BNC		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-258263-25	3 COAX Plenum RGB	25
CN-258263-50	3 COAX Plenum RGB	50
CN-258263-75	3 COAX Plenum RGB	75
CN-258263-100	3 COAX Plenum RGB	100
CN-258263-150	3 COAX Plenum RGB	150

PLENUM HIGH FLEX. 3 COAX RGB RCA		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258263RCA25	3 COAX Plenum RCA	25
CN258263RCA50	3 COAX Plenum RCA	50
CN258263RCA75	3 COAX Plenum RCA	75
CN258263RCA100	3 COAX Plenum RCA	100
CN258263RCA150	3 COAX Plenum RCA	150

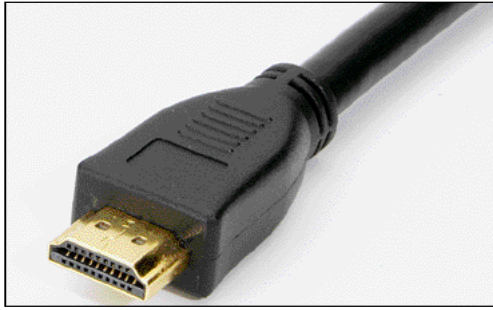
3 COAX RGB BNC ECONOMY ASSEMBLIES		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-E3BNC-3	3 COAX PVC RGBHV	3
CN-E3BNC-6	3 COAX PVC RGBHV	6
CN-E3BNC-12	3 COAX PVC RGBHV	12

3 COAX RGB RCA ECONOMY ASSEMBLIES		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-E3RCA-3	3 COAX PVC RGBHV	3
CN-E3RCA-6	3 COAX PVC RGBHV	6
CN-E3RCA-12	3 COAX PVC RGBHV	12



Accessories

HDMI CABLE ASSEMBLIES



HDMI TO HDMI		
CAT. NO.	DESCRIPTION	LENGTH (m)
CN-HDMI-1m	1 Meter HDMI to HDMI	1
CN-HDMI-2m	2 Meter HDMI to HDMI	2
CN-HDMI-3m	3 Meter HDMI to HDMI	3
CN-HDMI-5m	5 Meter HDMI to HDMI	5
CN-HDMI-6m	6 Meter HDMI to HDMI	6
CN-HDMI-8m	8 Meter HDMI to HDMI	8
CN-HDMI-10m	10 Meter HDMI to HDMI	10
CN-HDMI-12m	12 Meter HDMI to HDMI	12

HDMI TO HDMI with REPEATERS		
CAT. NO.	DESCRIPTION	LENGTH (m)
CN-HDMIXLR-15m	15 Meter HDMI to HDMI	15
CN-HDMIXLR-20m	20 Meter HDMI to HDMI	20
CN-HDMIXLR-30m	30 Meter HDMI to HDMI	30

VGA- HD15/HD15 or BNC CABLE ASSEMBLIES

HD 15 (M) TO BNC (F) ECONOMY		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN-EVGA-1	ECONOMY VGA	1
CN-EVGA-3	ECONOMY VGA	3
CN-EVGA-6	ECONOMY VGA	6
CN-EVGA-10	ECONOMY VGA	10
CN-EVGA-15	ECONOMY VGA	15



HD15 Terminal Block and Hood



HD15 Terminal Block Connectors	
Catalog No.	Description
CN-HD15FST	HD15(F) Terminal Block
CN-MX15F	PREMIUM HD15(F) Terminal Block
CN-MX15M	PREMIUM HD15(M) Terminal Block
CN-MX9F	PREMIUM DB9 (F) Terminal Block
CN-MX9M	PREMIUM DB9 (M) Terminal Block
CN-MX915H	Hood for PREMIUM Terminal Blocks

VGA with Audio Cable Assemblies

VGA with Audio	
Catalog No.	Description
CN-HDVGAAP-6	VGA With Audio 6'
CN-HDVGAAP-10	VGA With Audio 10'
CN-HDVGAAP-25	VGA With Audio 25'



Accessories

VGA- HD15/HD15 or BNC CABLE ASSEMBLIES



WP258265 - 5 Coax RGBHV- 26 AWG

5- 26 AWG RGB BNC to HD15 FEMALE PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265BHDF25	BNC TO HD15 F	25
CN258265BHDF50	BNC TO HD15 F	50
CN258265BHDF75	BNC TO HD15 F	75
CN258265BHDF100	BNC TO HD15 F	100
CN258265BHDF125	BNC TO HD15 F	125
CN258265BHDF150	BNC TO HD15 F	150

5- 26 AWG RGB HD15 to HD15 (F TO M) PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265HDFM25	HD15 F - HD15 M	25
CN258265HDFM50	HD15 F - HD15 M	50
CN258265HDFM75	HD15 F - HD15 M	75
CN258265HDFM100	HD15 F - HD15 M	100
CN258265HDFM125	HD15 F - HD15 M	125
CN258265HDFM150	HD15 F - HD15 M	150

5- 26 AWG RGB BNC to HD15 MALE PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265BHDM25	BNC TO HD15 M	25
CN258265BHDM50	BNC TO HD15 M	50
CN258265BHDM75	BNC TO HD15 M	75
CN258265BHDM100	BNC TO HD15 M	100
CN258265BHDM125	BNC TO HD15 M	125
CN258265BHDM150	BNC TO HD15 M	150

5- 26 AWG RGB HD15 to HD15 (M TO M) PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265HDMM25	HD15 M - HD15 M	25
CN258265HDMM50	HD15 M - HD15 M	50
CN258265HDMM75	HD15 M - HD15 M	75
CN258265HDMM100	HD15 M - HD15 M	100
CN258265HDMM125	HD15 M - HD15 M	125
CN258265HDMM150	HD15 M - HD15 M	150

255CRGB - 5 Coax RGBHV- 25 AWG

5- 25 AWG RGB BNC to HD15 FEMALE PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGBHDF25	BNC TO HD15 F	25
CN255CRGBHDF50	BNC TO HD15 F	50
CN255CRGBHDF75	BNC TO HD15 F	75
CN255CRGBHDF100	BNC TO HD15 F	100
CN255CRGBHDF125	BNC TO HD15 F	125
CN255CRGBHDF150	BNC TO HD15 F	150

5- 25 AWG RGB HD15 to HD15 (F TO M) PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGHDFM25	HD15 F - HD15 M	25
CN255CRGHDFM50	HD15 F - HD15 M	50
CN255CRGHDFM75	HD15 F - HD15 M	75
CN255CRGHDFM100	HD15 F - HD15 M	100
CN255CRGHDFM125	HD15 F - HD15 M	125
CN255CRGHDFM150	HD15 F - HD15 M	150

5- 25 AWG RGB BNC to HD15 MALE PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGBHDM25	BNC TO HD15 M	25
CN255CRGBHDM50	BNC TO HD15 M	50
CN255CRGBHDM75	BNC TO HD15 M	75
CN255CRGBHDM100	BNC TO HD15 M	100
CN255CRGBHDM125	BNC TO HD15 M	125
CN255CRGBHDM150	BNC TO HD15 M	150

5- 25 AWG RGB HD15 to HD15 (M TO M) PLENUM		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGHDM25	HD15 M - HD15 M	25
CN255CRGHDM50	HD15 M - HD15 M	50
CN255CRGHDM75	HD15 M - HD15 M	75
CN255CRGHDM100	HD15 M - HD15 M	100
CN255CRGHDM125	HD15 M - HD15 M	125
CN255CRGHDM150	HD15 M - HD15 M	150

Accessories

VGA Install Kits- 26 AWG - WP258265

Install Kit RGB HD15 Male to 5 BNC

HD 15 Male to 5 BNC 75Ω		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265KBHM25	HD 15 Male to 5 BNC	25
CN258265KBHM50	HD 15 Male to 5 BNC	50
CN258265KBHM75	HD 15 Male to 5 BNC	75
CN258265KBHM100	HD 15 Male to 5 BNC	100
CN258265KBHM125	HD 15 Male to 5 BNC	125
CN258265KBHM150	HD 15 Male to 5 BNC	150
CN258265KBHM175	HD 15 Male to 5 BNC	175



Note: HD15 (M) to 5- BNC

WP258265 Install Kit Includes:

- 1- Length of RGBHV 26AWG. Cable Connectorized with 1 HD15 Male.
- 5- 75Ω BNC Connectors
- 5- Colored Connector Boots
- 1- Piece of Heat Shrink Tube

Install Kit RGB HD15 (M) to HD15 (M or F)

HD 15 Male to HD 15 Male or Female		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265KHMF25	HD 15 M- HD15 M/F	25
CN258265KHMF50	HD 15 M- HD15 M/F	50
CN258265KHMF75	HD 15 M- HD15 M/F	75
CN258265KHMF100	HD 15 M- HD15 M/F	100
CN258265KHMF125	HD 15 M- HD15 M/F	125
CN258265KHMF150	HD 15 M- HD15 M/F	150
CN258265KHMF175	HD 15 M- HD15 M/F	175



Note: HD15 (M) to HD15 (M or F)

WP258265 Install Kit Includes:

- 1- Length of RGBHV 26AWG. Cable Connectorized with 1 HD15 Male.
- The other end is prepared for field termination
- 1- HD15 Male/ 1 HD15 Female
- 1- Piece of Heat Shrink Tube
- 1- HD15 Hood

Install Kit RGB HD15 (M) to HD15 Terminal Block

HD 15 Male to HD 15 Terminal Block		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN258265KHTB25	HD 15 M- HD15 TB	25
CN258265KHTB50	HD 15 M- HD15 TB	50
CN258265KHTB75	HD 15 M- HD15 TB	75
CN258265KHTB100	HD 15 M- HD15 TB	100
CN258265KHTB125	HD 15 M- HD15 TB	125
CN258265KHTB150	HD 15 M- HD15 TB	150
CN258265KHTB175	HD 15 M- HD15 TB	175



Note: HD15 (M) to HD15 Terminal Block

WP258265 Install Kit Includes:

- 1- Length of RGBHV 26AWG. Cable Connectorized with 1 HD15 Male.
- The other end is prepared for field termination
- 1- HD15 Terminal Block



HD 15 Connectors	
CAT. NO.	DESCRIPTION
CN-HD15FST	HD 15 Terminal Block
CN-HD15FF	HD 15 FeedThru

Accessories

VGA Install Kits- 25 AWG -255CRGB Plenum

Install Kit RGB HD15 Male to 5 BNC



HD 15 Male to 5 BNC 75Ω		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGKBHM25	HD 15 Male to 5 BNC	25
CN255CRGKBHM50	HD 15 Male to 5 BNC	50
CN255CRGKBHM75	HD 15 Male to 5 BNC	75
CN255CRGKBHM100	HD 15 Male to 5 BNC	100
CN255CRGKBHM125	HD 15 Male to 5 BNC	125
CN255CRGKBHM150	HD 15 Male to 5 BNC	150
CN255CRGKBHM175	HD 15 Male to 5 BNC	175

Note: HD15 (M) to 5- BNC

255CRGB Install Kit Includes:

- 1- Length of RGBHV 25AWG. Cable Connectorized with 1 HD15 Male.
- 5- 75Ω BNC Connectors
- 5- Colored Connector Boots
- 1- Piece of Heat Shrink Tube

Install Kit RGB HD15 (M) to HD15 (M or F)



HD 15 Male to HD 15 Male or Female		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGKHM25	HD 15 M- HD15 M/F	25
CN255CRGKHM50	HD 15 M- HD15 M/F	50
CN255CRGKHM75	HD 15 M- HD15 M/F	75
CN255CRGKHM100	HD 15 M- HD15 M/F	100
CN255CRGKHM125	HD 15 M- HD15 M/F	125
CN255CRGKHM150	HD 15 M- HD15 M/F	150
CN255CRGKHM175	HD 15 M- HD15 M/F	175

Note: HD15 (M) to HD15 (M or F)

255CRGB Install Kit Includes:

- 1- Length of RGBHV 25AWG. Cable Connectorized with 1 HD15 Male.
- The other end is prepared for field termination
- 1- HD15 Male/ 1 HD15 Female
- 1- Piece of Heat Shrink Tube
- 1- HD15 Hood

Install Kit RGB HD15 (M) to HD15 Terminal Block



HD 15 Male to HD 15 Terminal Block		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN255CRGKHTB25	HD 15 M- HD15 TB	25
CN255CRGKHTB50	HD 15 M- HD15 TB	50
CN255CRGKHTB75	HD 15 M- HD15 TB	75
CN255CRGKHTB100	HD 15 M- HD15 TB	100
CN255CRGKHTB125	HD 15 M- HD15 TB	125
CN255CRGKHTB150	HD 15 M- HD15 TB	150
CN255CRGKHTB175	HD 15 M- HD15 TB	175

Note: HD15 (M) to Terminal Block

255CRGB Install Kit Includes:

- 1- Length of RGBHV 25AWG. Cable Connectorized with 1 HD15 Male.
- The other end is prepared for field termination
- 1- HD15 Terminal Block

Accessories

VGA Install Kits- 25 AWG - 5CRGB Non Plenum

Install Kit RGB HD15 Male to 5 BNC

HD 15 Male to 5 BNC 75Ω		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN5CRGKBHM25	HD 15 Male to 5 BNC	25
CN5CRGKBHM50	HD 15 Male to 5 BNC	50
CN5CRGKBHM75	HD 15 Male to 5 BNC	75
CN5CRGKBHM100	HD 15 Male to 5 BNC	100
CN5CRGKBHM125	HD 15 Male to 5 BNC	125
CN5CRGKBHM150	HD 15 Male to 5 BNC	150
CN5CRGKBHM175	HD 15 Male to 5 BNC	175



Note: HD15 (M) to 5- BNC

5CRGB Install Kit Includes:

- 1- Length of RGBHV 25AWG. Cable Connectorized with 1 HD15 Male.
- 5- 75Ω BNC Connectors
- 5- Colored Connector Boots
- 1- Piece of Heat Shrink Tube

Install Kit RGB HD15 (M) to HD15 (M or F)

HD 15 Male to HD 15 Male or Female		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN5CRGKHM25	HD 15 M- HD15 M/F	25
CN5CRGKHM50	HD 15 M- HD15 M/F	50
CN5CRGKHM75	HD 15 M- HD15 M/F	75
CN5CRGKHM100	HD 15 M- HD15 M/F	100
CN5CRGKHM125	HD 15 M- HD15 M/F	125
CN5CRGKHM150	HD 15 M- HD15 M/F	150
CN5CRGKHM175	HD 15 M- HD15 M/F	175



Note: HD15 (M) to HD15 (M or F)

5CRGB Install Kit Includes:

- 1- Length of RGBHV 25AWG. Cable Connectorized with 1 HD15 Male.
- The other end is prepared for field termination
- 1- HD15 Male/ 1 HD15 Female
- 1- Piece of Heat Shrink Tube
- 1- HD15 Hood

Install Kit RGB HD15 (M) to HD15 Terminal Block

HD 15 Male to HD 15 Terminal Block		
CAT. NO.	DESCRIPTION	LENGTH (FT)
CN5CRGKHTB25	HD 15 M- HD15 TB	25
CN5CRGKHTB50	HD 15 M- HD15 TB	50
CN5CRGKHTB75	HD 15 M- HD15 TB	75
CN5CRGKHTB100	HD 15 M- HD15 TB	100
CN5CRGKHTB125	HD 15 M- HD15 TB	125
CN5CRGKHTB150	HD 15 M- HD15 TB	150
CN5CRGKHTB175	HD 15 M- HD15 TB	175



Note: HD15 (M) to HD15 Terminal Block

5CRGB Install Kit Includes:

- 1- Length of RGBHV 25AWG. Cable Connectorized with 1 HD15 Male.
- The other end is prepared for field termination
- 1- HD15 Terminal Block



HD 15 Connectors	
CAT. NO.	DESCRIPTION
CN-HD15EST	HD 15 Terminal Block
CN-HD15FF	HD 15 FeedThru

Accessories

Crimp Tools, Strip Tools & Testers

Network Testers		
CAT. NO.	Cambridge #	Description
TL-515	24-515	Multi-Network Tester 2pc.

BNC Removal Tools		
CAT. NO.	Cambridge #	Description
TL-4005	--	12 " BNC Removal
TL-4006	--	8 " BNC Removal

Punch Down Tools (UTP)		
CAT. NO.	Cambridge #	Description
TL-135	24-413P	110 punch down tool
99-412	99-412	Replacement blade for TL-135

Telephone Modular Crimp Tool		
CAT. NO.	Cambridge #	Description
TL-114	24-4682P	Crimps 2,4,6,8 Keyed Plugs

"F" Connector Crimp Tools		
CAT. NO.	Cambridge #	Description
TL-111	24-7710	RG59, RG6
TL-112	24-7711P	CN-F11ALX - "F" Connector
TL-115	24-RG11P	Plenum RG11 "F"
IT1000	--	Snap-n-Seal RG59, RG6
L3011B	--	Snap-n-Seal RG11

Multi-Purpose Crimp Tools		
CAT. NO.	Cambridge #	Description
TL-116	24-8860P	3 Pc. Crimp Tool RG58, RG59 Die Sizes: .060, .210, .255 Inch
TL-119	24-9960P	Univ. Crimp Tool- Die- .068,.110, .213, .255, .324 Inch

Strip Tools		
CAT. NO.	Cambridge #	Description
TL-120	24-7732P	2 Cut- RG58, RG59, RG6, RG62
TL-121	24-7733P	3 Cut- RG58, RG59, RG6, RG62
TL-122	24-7735P	2 Cut- RG58, RG59, RG6, RG62
TL-123	24-7738P	3 Cut- RG58, RG59, RG6, RG62
TL-124	24-7739P	3 Cut- RG8, RG11, RG213
TL-825	--	3 Cut- RG179

Replacement Blades		
CAT. NO.	Cambridge #	Description
TL-133	99-7732B	For TL-120
TL-134	99-7733B	For TL-121



Crimp Tool

Die Sets		
CAT. NO.	Cambridge #	Description
TL-125	99-MC-1	TL-103
TL-126	99-MC-2	TL-104
TL-127	99-MC-3	--
TL-128	99-MC-5	TL-110
TL-129	99-MC-12	TL-105
TL-130	99-DC-1	TL-100
TL-131	99-DC-2	TL-101
TL-132	99-DC-5	TL-109
TL-151	--	TL-150
99-DC-3	99-DC-3	TL-102

BNC Crimp Tools		
CAT. NO.	Cambridge #	Description
TL-100	24-300P	CN-BM52-1, CN-BM52-10
TL-101	24-301P	CN-SWBM53-2, CN-BM52-2, CN-BM52-4
TL-102	24-302P	CN-BM52-3
TL-103	24-304P	CN-BM53-1, CN-BM53-10, CN-BM53-11, CN-BM53-13, CN-BM53-30
TL-104	24-305P	CN-BM53-2, CN-BM53-4, CN-BM74-32
TL-105	24-306P	CN-BM74-18, CN-BM53-25, CN-BM74-19
TL-106	24-313	CN-BM53-110
TL-107	--	CN-BM73-5, CN-BM73-4, DIE: .068, .093, .213, .255, .311
TL-108	24-320P	CN-BM53-11
TL-109	24-321P	CN-BM52-5
TL-110	24-322P	CN-BM53-5
TL-113	24-7712P	CN-BM53-26
TL-150	--	CN-BM53-7
24-9912P	--	Crimp Tool for .184"/.006"
24-9959P	--	Crimp Tool for .255"/.063"

Accessories

BNC, N, & TNC Connectors



75 Ω BNC Connectors		
CAT. NO.	Cambridge #	Description
CN-BM73-2	CPMC-78-2	3 PC. RG59/U
CN-BM73-3	CPMC-78-3	3 PC. P806
CN-BM73-4	--	3 PC. RG6/U PLENUM
CN-BM73-5	CPMC-78-5	3 PC. RG6/U
CN-BM73-7	--	3 PC. RG7/U
CN-BM74-18	--	4 PC. MINIMAX
CN-BM74-19	--	4 PC. 26AWG Miniature RGB
CN-BM73-30	CPMC-7830WP	3 PC. RG59/U PLENUM
CN-BM74-32	--	3 PC. RG59/U PVC/PLENUM
CN-BF74-18	--	4 PC. MINIMAX Female

2 Pc. 50 Ω BNC Connectors		
CAT. NO.	Cambridge #	Description
CN-BM52-2	CP-88-2	RG59/U
CN-BM52-3	CP-88-3	P806
CN-BM52-4	CP-88-4	RG59/U MATV
CN-BM52-5	CP-88-5	RG6/U
CN-BM52-10	CP-88-10	RG59/U TFE Plenum
CN-SWBM52-2	CP-SW88-2	Stranded RG59/U
CN-BF52-2	CP-89-2	Female RG59/U
CN-BF52-5	CP-89-5	Female RG6/U
CN-BF52-10	--	Female RG59/U Plenum

N & TNC Connectors		
CAT. NO.	Cambridge #	Description
CN-NM53-808	--	N Type 808F
CN-NM53-110	CPN-8-110	N Type RG8
CN-ETN-23	CPN-ET-23	N Type Ethernet
CN-NM51-ETN	--	N Type Ethernet
CN-TM53-1	--	TNC RG58/U

UHF Connectors		
CAT. NO.	Cambridge #	Description
CN-PL259-1	CPL-259-1	RG58/U
CN-PL259-2	CPL-259-2	RG59/U

3 Pc. 50 Ω BNC Connectors		
CAT. NO.	Cambridge #	Description
CN-BM53-1	CPMC-88-1	RG58/U, 141
CN-BM53-2	CPMC-88-2	RG59/U
CN-BM53-4	CPMC-88-4	RG59/U MATV
CN-BM53-5	CPMC-88-5	RG6/U
CN-BM53-8	--	RG8/U
CN-BM53-8X	--	RG8/X
CN-BM53-13	CPMC-88-13WP	RG58/U
CN-BM53-25	CPMC-88-25	RG58/U Thinnet
CN-BM53-26	CPMC-88-26	RG11/U
CN-BM53-30	CPMC-8830WP	RG59/U Plenum
CN-BM53-45	--	RG6/U Quad-Shield Plenum
CN25810KBNC	--	25810
CN-BF53-18	--	MINIMAX Female

1 Pc. 50 Ω BNC Connectors		
CAT. NO.	Cambridge #	Description
CN-BM51-1	CPFI-UG88-1	RG58/U
CN-BM51-2	CPFI-UG88-2	RG59/U
CN-BM51-4	CPFI-UG88-4	RG59/U MATV
CN-BM51-5	CPFI-UG88-5	RG6/U
CN-BM51-10	CPFI-UG88-10	RG59/U TFE Plenum
CN-BM51-RA-2	CPFI-RA-2	Rght. angle RG59/U
CN-BM51-RA-5	CPFI-RA-5	Rght. angle RG6/U



N Type

Accessories

"F" Type Connectors and CATV Products



"F" Type Connector

"F" Type Crimp Connectors		
CAT. NO.	Cambridge #	Description
CN-F59ALM	25-7030	RG59/U
CN-F59ALX	25-7031	RG59 Tri/ Quad Shield
CN-F56ALM	25-7032	RG6/U
CN-F56ALX	25-7033	RG6/U Quad Shield
CN-F59TFE/WP	25-7035	RG59/U Plenum WPW
CN-F56TFE	25-7047	RG6/U Plenum
CN-F56AQ	25-7056	Zinc Plated RG6/U Outdoor with rubber "O" Ring
CN-F59T	25-7100	75Ω Terminator "F" Type
CN-F56TW	25-7180	RG6/U Twist on
CN-F11ALX	25-7191	RG11/U
CN-F11TFE	25-7192	RG11/U Plenum
CN-F81	25-7200	"F" Barrel Splice F81
CN-F81NW	25-7210	"F" Barrel Splice F81 with nut and washer
CN-F56GEL	--	RG6/U Gel filled with rubber "O" Ring
CN-F81L	--	1" Inline Splice
70-1081	--	3/4" 1GHz Inline Splice
CN-CPF-RA	--	RG59/U Right Angle Male

Snap-N-Seal Compression Style		
CAT. NO.	Cambridge #	Description
SNS6	--	RG6/U
SNS6QS	--	RG6/U Quad Shield
NS500	--	Nut seal for Snap-N-Seal
SNS11	--	RG11/U
SNS59	--	RG59/U
SNS59QS	--	RG59/U Quad Shield

CATV Splitters		
CAT. NO.	Cambridge #	Description
11-4120	--	2- Way 1GHz
11-4130	--	3- Way 1GHz
11-4140	--	4- Way 1GHz
11-4180	--	8- Way 1GHz



Accessories

Compression Connectors

"F" Type Compression Connectors	
CAT. NO.	Description
CN-FSNS-2	RG59/U
CN-FSNS-6	RG6/U (PVC, Plenum, QS Plenum)
CN-CSF-6	RG6/U
CN-FSNSQS-6	RG6/U Quad Shield
CN-FSNS-11	RG11/U
CN-FSNSRA-6	RG6/U RA (PVC, Plenum, QS Plenum)
CN-FSNSF-2	RG59/U Female
CN-FSNSF-6	RG6/U (PVC, Plenum, Q.S. Plenum) Female



Coaxial Kit

BNC Compression Connectors	
CAT. NO.	Description
CN-FS1BNC	1- Pc. Miniature 25AWG RGB
CN-CSBNC-25	4 Pc. MiniMax
CN-CSBNC-26	4 Pc. Miniature 26AWG RGB
CN-CSBNC-59	RG59/U
CN-CSBNC-11	RG11/U
CN-BNCSNS-10	RG59/U Plenum
CN-CSBNC-6	RG6/U PVC
CN-BNCSNS-4	RG6/U Plenum
CN-BNCSNSRA-2	RG59/U Rght. Angle
CN-BNCSNSF-2	RG59/U Female



Compression BNC

RCA Compression Connectors	
CAT. NO.	Description
CN-FS1RCA	1- Pc. Miniature 25AWG RGB
CN-CSRCA-25	4 Pc. MiniMax
CN-CSRCA-26	4 Pc. Miniature 26AWG RGB
CN-CSRCA-59	RG59/U
CN-CSRCA-6	RG6/U
CN-RCASNS-10	RG59/U Plenum
CN-RCASNS-6	RG6/U PVC, QS Plenum
CN-RCASNS-4	RG6/U Plenum
CN-RCASNSRA-2	RG59/U Rght. Angle
CN-RCASNSQS-6	RG6/U Quad Shield
CN-RCASNSQSF-6	RG6/U Quad Shield Female



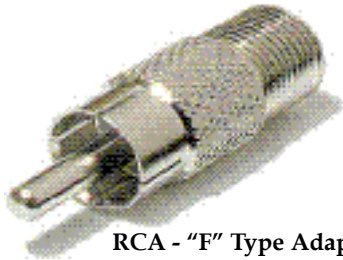
Compression RCA

Accessories	
CAT. NO.	Description
TL-SNSA	Adjustable Crimp Tool
TL-SNSST	Strip Tool
TL-SNS11	RG11/U Crimp Tool
TL-BOXE	Empty Box
TL-CSST	Strip Tool
CN-FSCR-xx	Rings- xx- BK, BL, GN, RD, WH, YE

Accessories	
CAT. NO.	Description
TL-807K1	Economy Compression Tool
TL-SNSTK	Compression Kit
TL-CS25TKA	25 AWG. Pro Video Kit (40 BNC)
TL-CS25TKB	25 AWG. Pro Video Kit (20 BNC+ 20 RCA)
TL-CS26TK	26 AWG. Pro Video Kit (20 BNC+ 20 RCA)

Accessories

Adapters



RCA - "F" Type Adapter



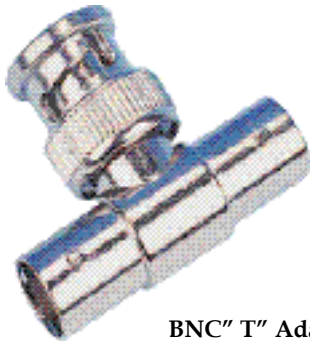
PL 259 Adapter



RCA - BNC Adapter



UHF- BNC Adapter



BNC "T" Adapter

Adapters		
CAT. NO.	Cambridge #	Description
CN-ADP100	25-7140	"F" female to push-on "F" male
CN-ADP102	25-7600	Right Angle "F" female to "F" male
CN-ADP103	25-7530	RCA male to "F" female
CN-ADP106	CP-AD106	RCA female to "F" male
CN-ADP205	CP-AD205	UHF Rght Angle male to female
CN-ADP250	CP-AD250	Standard PL 259
CN-ADP500	CP-AD500	UHF male to BNC Female
CN-ADP501	27-8110	RCA male to BNC female
CN-ADP502	27-8100	"F" male to BNC female
CN-ADP503	27-8150	BNC Rght Angle female to male
CN-ADP505	27-8140	BNC "T" 2 female to 1 male
CN-ADP506	27-8141	BNC "T" 3 female
CN-ADP511	--	BNC male to male
CN-ADP515	25-7510	BNC male to RCA female
CN-ADP516	25-7500	"F" female to BNC male
CN-ADP521	27-8471	BNC Bulkhead jack to jack isolated
CN-ADP555	CP-AD555	50Ω BNC splice
CN-ADP556	CP-AD556	50Ω Bulkhead jack to jack
CN-ADP558	CP-AD558	50Ω Bulkhead jack to jack/w isolated bushings
CN-ADP703	--	75Ω BNC right angle male to female
CN-ADP559	CP-AD559	50Ω Bulkhead jack to jack, UG-49
CN-ADP721	--	75Ω Isolated Bulkhead jack to jack
CN-ADP755	28-74307	75Ω BNC Splice
CN-ADP756	CP-AD756	75Ω Bulkhead jack to jack
CN-ADP805	26-8014	N female to UHF male
CN-ADP807	26-8017	N female to BNC male
CN-ADP850	26-8010	ETN splice female to female
CN-MT-50	CP-88T-50	50Ω BNC Terminator
CN-MT-75	CP-88T-75	75Ω BNC Terminator
CN-ADP-ST	CP-1094-AST	BNC Bulkhead with integral solder tab
CN-ADP-ST75	--	75Ω BNC Bulkhead with solder tab
CN-ADP504	--	BNC female to UHF male
CN-ADP512	--	BNC male to UHF female
CN-ADP559	--	BNC Bulkhead female to female
CN-ADP705	--	75Ω BNC "T" 2 female, 1 male
CN-HD15FST	--	HD15 female to terminal block
CN-HD15FF	--	HD15 feed thru
19-1202	--	Stereo Mini Plug
CN-SM3.5F	--	3.5mm Stereo Mini Jack
19-1207	--	RCA plug, Red
19-1239	--	Banana plug, Red
19-1240	--	Banana plug, Black
19-1268	--	RCA plug, Black
44-A3F	--	3 position XLR jack
44-A3M	--	3 position XLR plug
25-7290	--	RCA RG59/U Male plug
19-1201	--	3.5mm Mini Mono plug

Accessories

RCA , Triaxial, and DB Connectors



Triaxial Connector

RCA Connectors		
CAT. NO.	Cambridge #	Description
CN-PRCA7-59	--	Crimp RCA RG59/U
CN-PRCA7-6	--	Crimp RCA RG6/U
CN-PRCA-825	--	Crimp RCA MiniMax RG179/U
CN-RCA290	--	Crimp RCA RG59/U
CN-RCA290-G	--	Crimp RCA RG59/U Gold Plated
MDL2B	--	Crimp RCA RG59/U Gold Plated Twist-on

Triaxial Connectors and Accessories		
CAT. NO.	Cambridge #	Description
7702-1	--	Bulkhead for 3811
7702-2	--	3/8" Male bulkhead, front mount
7702-3	--	1/2" Male bulkhead, front mount
7702-4	--	Female Bulkhead for 3811
7702-5	--	3/8" Female bulkhead, front mount
7702-6	--	1/2" Female bulkhead, front mount
7703-1	--	Kings female for 3811
7703-2	--	3/8" Female
7703-3	--	1/2" Female
7703-6	--	Female 253815
7703-9	--	Female 3815
7705-1	--	Male 3811
7705-2	--	3/8" Male
7705-3	--	1/2" Male
7705-4	--	Male 253815
7705-9	--	Male 3815
FXC.4A.675.CTCC	--	Lemo connector 253811
KTH1000	--	King Crimp Tool
KTH2002	--	3/8" Crimp die
KTH2040	--	Crimp die- 1150, 3811
KTH2041	--	1/2" Crimp die



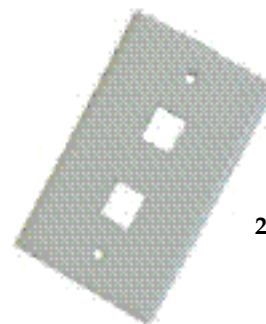
DB15 Connector

DB and HD Connectors		
CAT. NO.	Cambridge #	Description
40-9709HS	--	9 Pin DB Sub Hood
40-9709M	--	DB9 Male (Solder)
40-9709S	--	DB9 Female (Solder)
40-9515HDM	--	15 Pin HD Male Solder
40-9515HDS	--	15 Pin HD Female Solder

Accessories

Voice and Data Products

Keystone Wallplates	
CAT. NO.	Description
30-9209 Ivory	Single Port
30-9429 White	
--	
30-9210 Ivory	Two Port
30-9420 White	
--	
30-9211 Ivory	Three Port
30-9421 White	
--	
30-9223 Ivory	Four Port
30-9423 White	
30-9422	Six Port Modular Plate
30-6208	Dual gang 8 Port Plate



2 Port Plastic Plate

Snap-In Modules for Keystone Wall Plates	
CAT. NO.	Description
071-IBN-IV	Modular BNC Adapter plate, Ivory
071-IBN-WH	Modular BNC Adapter plate, White
071-IFF-IV	Modular "F" Adapter plate, Ivory
071-IFF-WH	Modular "F" Adapter plate, White
071-IST-IV	Modular ST Adapter plate, Ivory
071-IST-WH	Modular ST Adapter plate, White
071-RCA-IV	Modular RCA Adapter plate, Ivory
071-RCA-WH	Modular RCA Adapter plate, White
30-9213	Blank plug
30-9214	Coax plug
32-1205	1 Telephone jack wall plate
32-1214	Dual telephone jack wall plate
071-MDIN4-WH	SVHS snap in Module, White



"F" Module

Wire Strip Tools		
CAT. NO.	Cambridge #	Description
WP-4500P	24-4500P	Automatic wire/Jacket Stripper
24-7740P	24-7740P	4" Universal UTP Strip Tool
24-7371P	--	Wire Strip Tool, Cutter, Plier 10-18 AWG

Accessories

Voice and Data Products



Category 5E Jack



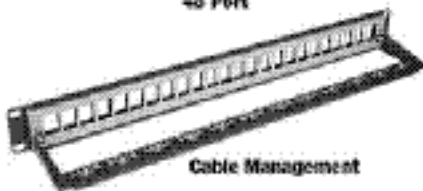
Keystone Jack



24 Port



48 Port



Cable Management



Ring Management

Keystone Jacks (110 Style- 8 Cond.)

CAT. NO.	Description
AX101319	Category 6 Almond- Other Colors are available
30-7411B (A)	Black- Category 5E
30-7412B (A)	Blue- Category 5E
30-7413B (A)	Green- Category 5E
30-7414B (A)	Red- Category 5E
30-7415B (A)	Yellow- Category 5E
30-7416B (A)	White- Category 5E
30-7417B (A)	Orange- Category 5E
30-7418B (A)	Ivory- Category 5E

Keystone Jacks Cat 3 and 4

CAT. NO.	Description
30-9201	6 Conductor
30-9201	8 Conductor

Patch Panels Category 5E

CAT. NO.	Description
30-7422B (A)	12 Port Panel Horizontal rack mount
30-7424B (A)	24 Port Panel Horizontal rack mount
30-7448B (A)	48 Port Panel Horizontal rack mount
30-7496B (A)	96 Port Panel Horizontal rack mount
30-8412B (A)	12 Port Panel Vertical rack mount
30-5700	Vertical mount 50 pair 100 block

Patch Panels Category 6

CAT. NO.	Description
12458MD-C6C	12 Port Panel Horizontal rack mount
24458MD-C6C	24 Port Panel Horizontal rack mount
48458MD-C6C	48 Port Panel Horizontal rack mount
96458MD-C6C	96 Port Panel Horizontal rack mount

Wall Brackets

CAT. NO.	Description
30-5424H	24 Port with hinge
30-5448H	48 Port with hinge
30-5496H	96 Port with hinge

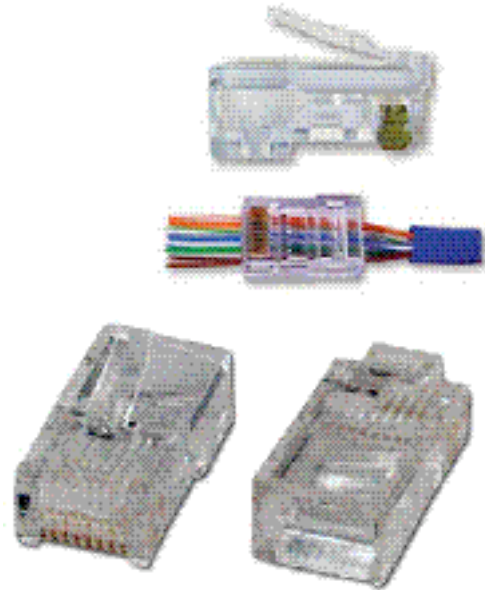
Ring Management

CAT. NO.	Description
30-5400	With 5 ring- metal
30-5615	Plastic cable hangers

Accessories

Voice and Data Products

Telephone Plugs	
CAT. NO.	Description
Round Solid or Stranded Cable	
32-2198UL	RJ45- 8 Cond. - 100/bag
32-6198UL	RJ45- 8 Cond. - 100/bag
Round Solid & Stranded Cable	
32-5998UL	RJ45- 8 Cond. 100/bag
Round Shielded Cable	
32-2098UL	RJ45- 8 Cond. 100/bag
Crimp Tools	
TL-114	Crimp Tool 2,4,6,8 and 8 Keyed modular plugs
32-1964UL	RJ11 Hand set plug



Voice/Data Plugs

Boots for RJ45 Connectors	
CAT. NO.	Description
32-1900	BK, BU, GN, RE, YE, GY, WH

Category 5E Cable Assemblies	
CAT. NO.	Description
WP-66XX-3	Cat 5E- 3ft. Replace: XX -70 (Gray), 72 (Blue), 74 (Red)
WP-66XX-7	Cat 5E- 7ft. Replace: XX -70 (Gray), 72 (Blue), 74 (Red)
WP-66XX-10	Cat 5E- 10ft. Replace: XX -70 (Gray), 72 (Blue), 74 (Red)
WP-66XX-15	Cat 5E- 15ft. Replace: XX -70 (Gray), 72 (Blue), 74 (Red)
WP-66XX-20	Cat 5E- 20ft. Replace: XX -70 (Gray), 72 (Blue), 74 (Red)

Category 6 Cable Assemblies	
CAT. NO.	Description
WP-4236XX-3	Cat 6- 3ft. Replace: XX -GY, BL
WP-4236XX-7	Cat 6- 7ft. Replace: XX -GY, BL
WP-4236XX-10	Cat 6- 10ft. Replace: XX -GY, BL
WP-4236XX-15	Cat 6- 15ft. Replace: XX -GY, BL
WP-4236XX-20	Cat 6- 20ft. Replace: XX -GY, BL



LAN Cable Assemblies

Accessories

Fiber Optic Products



Optimax Kit



Epoxy Kit



Fiber Optic Connectors



3M Splice



ST/ST Adapter

Optimax Fiber Optic Kit & Accessories	
CAT. NO.	Description
FI-3634	ST Compatible, Installation Tool
FI-3635	Optimax Tool Kit (ST, SC, LC)
FI-3639	Optimax refurbishing kit
FI-3641	Optimax Crimp Tool
FI-8829	Fiber Cleave
FI-8832	Microscope
FI-8835	62.5µm ST Connector - 900µm
FI-8837	62.5µm ST Connector - Universal-jacket fibers
FI-1075	50µm ST Connector - 900µm
FI-1074	50µm ST Connector - Universal-jacket fibers
FI-0028	62.5µm SC Connector - 900µm
FI-0029	62.5µm SC Connector - Universal-jacket fibers
FI-1077	50µm SC Connector - 900µm
FI-1076	50µm SC Connector - Universal-jacket fibers
FI-1791	Single-Mode ST Connector - 900µm
FI-1792	Single-Mode SC Connector - 900µm
FI-1793	Single-Mode ST Compatible Accessory Kit
FI-1794	Single-Mode SC Compatible Accessory Kit
FI-1981	62.5µm LC Connector - 900µm
FI-1982	50µm LC Connector - 900µm
FI-1983	Single-Mode LC Connector - 900µm
FI-1984	LC Single-Mode Accessory Kit

Connectorization Kits	
CAT. NO.	Description
FI-0053ST	Epoxy Kit

Fiber Optic Connectors & Supplies	
CAT. NO.	Description
3M-6100	3M Hot Melt Connector
FI-0061	ST Stainless MultiMode Connector
FI-0066	ST Ceramic MultiMode Connector
FI-0069	ST Ceramic Single-Mode Connector
FI-3066	Epoxy SC Connector
FI-501473-3	Epoxy Syringe
FI-7070	Epoxy Tubes
FI-7070P	Mini Epoxy Packets (fast cure)
FI-BAF253	Epoxy Packets

Splices	
CAT. NO.	Description
3M-2529	3M Fibrlock Splice
3M-2501	3M Fibrlock Splice Tool
FI-0053-FI	3M Fibrlock Splice Kit
FI-8400	3M Fibrlock Splice Tray
FI-8102	ST MM/SM Mating Sleeve
FI-8200	ST MM Mating Sleeve
FI-8300	SC MM/SM Mating Sleeve
FI-8400APC	MM/SM Mating Sleeve APC Polished
FI-8521	FC/APC Adapter

Accessories

Fiber Optic Products

Termination Tools

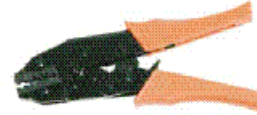
CAT. NO.	Description
FI-NN203	No-Nik 203 μ Red
FI-86 1/2S	Serrated Scissors
FI-05-60-C	60° Wedge Scribe
FI-FO103-S	Miller Strip Tool
FI-1302	Crimp Tool for Epoxy connector
FI-NN175	No-Nik 175 μ



Miller Strip Tool

Polish Paper

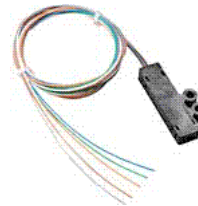
CAT. NO.	Description
FI-0109-03	.03 μ m
FI-0109-1	1 μ m
FI-0109-3	3 μ m
FI-0109-5	5 μ m
FI-0109-15	15 μ m
FI-0109-5-1-03	5 μ m, 1 μ m, .03 μ m



Crimp Tool

Breakout (Fanout) Kits

CAT. NO.	Description
FI-1100	6 Tube Breakout Kit
FI-1101	12 Tube Breakout Kit
FI-FT900	900 μ m Furcation Tubing



Breakout Kit

Innerduct

CAT. NO.	Description
FI-6211	1" Poly Innerduct, 250' Roll
FI-6311	1" Plenum Innerduct, 250' Roll
FI-6212	1" Riser Innerduct, 250' Roll



Innerduct

Test Equipment

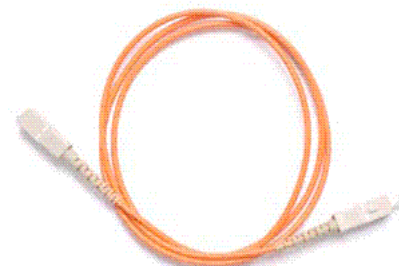
CAT. NO.	Description
FI-5000	Continuity Tester
FI08513	850/1300/1550 Power Meter
FI-0850	850 nm Light Source
FI-1300	1300 nm Light Source
FI-8513	850/1300 nm Light Source
FI-1550	1550 Laser Source
FI-9699	Mini- OTDR



Testing Equipment

Fiber Optic Cable Assemblies

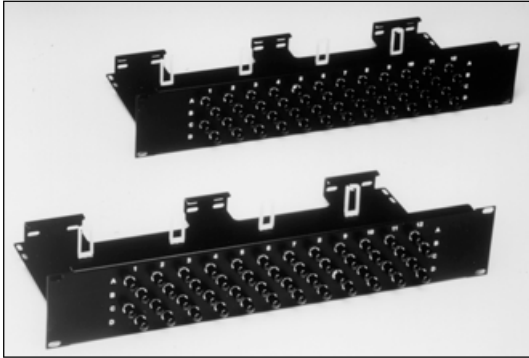
CAT. NO.	Description	
Simplex		
FI-2001-3	3' Simplex ST	SC - FI-2001-3SC, LC - FI-2001-3LC
FI-2001-6	6' Simplex ST	SC - FI-2001-6SC, LC - FI-2001-6LC
FI-2001-10	10' Simplex ST	SC - FI-2001-10SC, LC - FI-2001-10LC
FI-2001-15	15' Simplex ST	SC - FI-2001-15SC, LC - FI-2001-15LC
FI-2001-30	30' Simplex ST	SC - FI-2001-30SC, LC - FI-2001-30LC
Duplex		
FI-2002-3	3' Duplex ST	SC - FI-2002-3SC, LC - FI-2002-3LC
FI-2002-6	6' Duplex ST	SC - FI-2002-6SC, LC - FI-2002-6LC
FI-2002-10	10' Duplex ST	SC - FI-2002-10SC, LC - FI-2002-10LC
FI-2002-15	15' Duplex ST	SC - FI-2002-15SC, LC - FI-2002-15LC
FI-2002-30	30' Duplex ST	SC - FI-2002-30SC, LC - FI-2002-30LC



Fiber Optic Cable Assemblies

Accessories

Fiber Optic Products



Patch Panels



Wall Mount Panel



Rack Mounted Patch Panels	
CAT. NO.	Description
FI-RME24STL	24 Port RM Dedicated PP Economy Loaded*
FI-RME48STL	48 Port RM Dedicated PP Economy Loaded*
FI-RM24	24 Port RM, 6 Pack, Empty- Needs 4 Plates
FI-RM48	48 Port RM, 6 Pack, Empty- Needs 8 Plates
FI-RM72	72 Port RM, 6 Pack, Empty- Needs 12 Plates
CN-BNCE-16	16 Port BNC, Empty Patch Panel
CN-BNCE-32	32 Port BNC, Empty Patch Panel
CN-BNCE-48	48 Port BNC, Empty Patch Panel
CN-BNCL-16	16 Port BNC, Loaded Patch Panel
CN-BNCL-32	32 Port BNC, Loaded Patch Panel
CN-BNCL-48	48 Port BNC, Loaded Patch Panel
CN-BNCIL-16	16 Port BNC, Isolated Loaded Patch Panel
CN-BNCIL-32	32 Port BNC, Isolated Loaded Patch Panel
CN-BNCIL-48	48 Port BNC, Isolated Loaded Patch Panel

* Loaded with ST Multimode Adapters

Wall Mount Enclosures	
CAT. NO.	Description
FI-WME06STL	6 Port Economy, Dedicated PP Loaded*
FI-WME12STL	12 Port Economy, Dedicated PP Loaded*
FI-WM12	6/12 Port Double Door, Empty- Needs 2 Plates
FI-WM24	24 Port Double Door, Empty- Needs 4 Plates
FI-WM48	48 Port Double Door, Empty- Needs 8 Plates
FI-WM100	100 Port Wall Mount

Free Standing Racks	
CAT. NO.	Description
WPDR-4819	19" Steel Distribution Rack- 48" High
WPDR-7219	19" Steel Distribution Rack- 72" High
WPDR-8419	19" Steel Distribution Rack- 84" High
WPCR-8419	19" Cable Management Rack- 84" High

Distribution Racks

Accessories

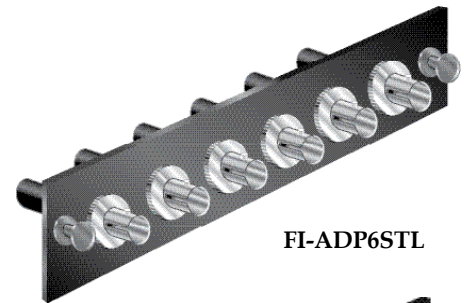
Fiber Optic/ Coaxial Adapter Plates & Accessories

Fiber Optic Adapter Plates	
CAT. NO.	Description
FI-ADP6STE	6 ST Empty, "Snap-In"
FI-ADP6STL	6 ST Loaded, "Snap-In"
FI-ADP6BNK	Blank, "Snap-In"
FI-ADP6SCE	6 SC Empty, "Snap-In"
FI-ADP6SCL	6 SC Loaded, "Snap-In"
FI-ADP6SMSTL	6 ST Single-Mode Loaded, "Snap-In"
FI-ADP6S/MSTL	6 ST SM & MM Loaded, "Snap-In"

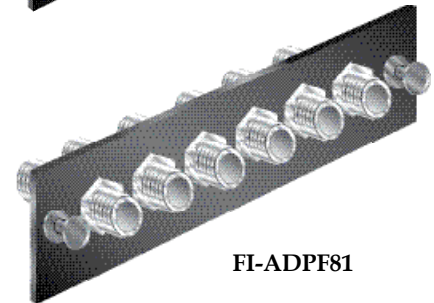
Coaxial Adapter Plates	
CAT. NO.	Description
FI-ADPBNC	5 BNC Female to Female Loaded, "Snap-In"
FI-ADPBISO	5 BNC F/F Isolated Loaded, "Snap-In"
FI-ADPF81	6 F/F "F" Adapter, "Snap-In"
FI-ADPBNCE	5 BNC Empty, "Snap-In"
FI-ADPF81E	6 "F" Empty, "Snap-In"

Single Fiber Optic Adapters	
CAT. NO.	Description
FI-8102	Multi/Single Mode ST Adapter
FI-8200	Single-Mode ST Adapter
FI-8300	Multi/Single Mode SC Adapter

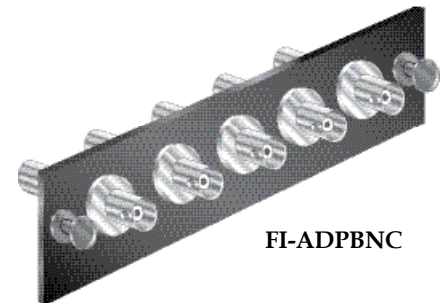
Splice Tray	
CAT. NO.	Description
FI-SPTRME	12 Fiber Splice Tray for Mechanical Splices



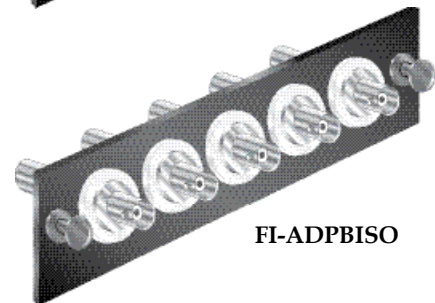
FI-ADP6STL



FI-ADPF81



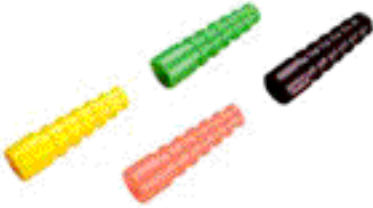
FI-ADPBNC



FI-ADPBISO

Accessories

Misc. Accessories



Boots for RG59/U	
CAT. NO.	Description
B59TNxx	Replace xx with: BK, BL, GN, RD, YE

Boots for MiniMax RG179/U	
CAT. NO.	Description
B58TNxx	Replace xx with: BK, BL, GN, RD, YE

Boots for Miniature 25AWG and 26 AWG	
CAT. NO.	Description
B58TNSxx	Replace xx with: BK, BL, GN, RD, YE



MiniMax Kit

Kreate a Kit MiniMax									
CAT. NO.	Description								
TL-825TKNC	825 Tool Kit With out Connectors								
CN-BM74-18	75Ω Crimp BNC Male								
CN-BF74-18	75Ω Crimp BNC Female								
CN-PRCA-825	RCA Connector Crimp								
TL-825TKA	<table border="0"> <tr> <td>CN-825TKNC</td> <td>1</td> </tr> <tr> <td>CN-BM74-18</td> <td>80</td> </tr> </table>	CN-825TKNC	1	CN-BM74-18	80				
CN-825TKNC	1								
CN-BM74-18	80								
TL-825TKB	<table border="0"> <tr> <td>CN-825TKNC</td> <td>1</td> </tr> <tr> <td>CN-BM74-18</td> <td>50</td> </tr> <tr> <td>CN-BF74-18</td> <td>10</td> </tr> <tr> <td>CN-PRCA-825</td> <td>10</td> </tr> </table>	CN-825TKNC	1	CN-BM74-18	50	CN-BF74-18	10	CN-PRCA-825	10
CN-825TKNC	1								
CN-BM74-18	50								
CN-BF74-18	10								
CN-PRCA-825	10								

Cable Assemblies/ Stereo Mini Audio

CM PVC Stereo Mini Male to Male	
Catalog No.	Description
CN-454SM-15	Line Level Audio Stereo Mini Male to Male 15ft.
CN-454SM-25	Line Level Audio Stereo Mini Male to Male 25ft.
CN-454SM-50	Line Level Audio Stereo Mini Male to Male 50ft.
CN-454SM-75	Line Level Audio Stereo Mini Male to Male 75ft.
CN-454SM-100	Line Level Audio Stereo Mini Male to Male 100ft.
CN-454SM-150	Line Level Audio Stereo Mini Male to Male 150ft.

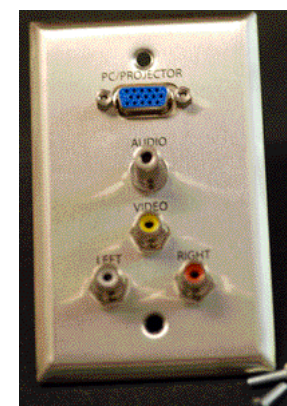


CMP Plenum Stereo Mini Male to Male	
Catalog No.	Description
CN-SMTSM-15	Line Level Audio Stereo Mini Male to Male 15ft.
CN-SMTSM-25	Line Level Audio Stereo Mini Male to Male 25ft.
CN-SMTSM-30	Line Level Audio Stereo Mini Male to Male 30ft.
CN-SMTSM-35	Line Level Audio Stereo Mini Male to Male 35ft.
CN-SMTSM-50	Line Level Audio Stereo Mini Male to Male 50ft.
CN-SMTSM-75	Line Level Audio Stereo Mini Male to Male 75ft.
CN-SMTSM-100	Line Level Audio Stereo Mini Male to Male 100ft.
CN-SMTSM-150	Line Level Audio Stereo Mini Male to Male 150ft.

Accessories

AV Wallplates

Catalog No.	Description
CN-SSHDTB3RS3.5	1-HD15 Term. Block, 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- Stainless
CN-WSHDTB3RS3.5	1-HD15 Term. Block, 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- White
CN-SSHDTB3RS3.5	1-HD15 (f-f), 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- Stainless
CN-WSHDTB3RS3.5	1-HD15 (f,f), 3 RCA, 1-4Pin Mini Din, 1- 3.5mm Audio- White
CN-SSHDTB2R	1-HD15 Term. Block, 2 RCA Stainless
CN-WSHDTB2R	1-HD15 Term. Block, 2 RCA - White
CN-SSHDTB2R	1-HD15 (f-f), 2 RCA - Stainless
CN-WSHDTB2R	1-HD15 (f,f), 2 RCA - White
CN-SSHDTB3R	1-HD15 Term. Block, 3 RCA- Stainless
CN-WSHDTB3R	1-HD15 Term. Block, 3 RCA- White
CN-SSHDTB3.5	1-HD15 Term. Block, 1- 3.5mm Audio- Stainless
CN-WSHDTB3.5	1-HD15 Term. Block, 1- 3.5mm Audio- White
CN-SSHDTB3.5	1-HD15 (f-f), 1- 3.5mm Audio- Stainless
CN-WSHDTB3.5	1-HD15 (f,f), 1- 3.5mm Audio- White
CN-SSHDTB3R3.5	1-HD15 Term. Block, 3 RCA, 1- 3.5mm Audio- Stainless
CN-WSHDTB3R3.5	1-HD15 Term. Block, 3 RCA, 1- 3.5mm Audio- White
CN-SSHDTB3R3.5	1-HD15 (f-f), 3 RCA, 1- 3.5mm Audio- Stainless
CN-WSHDTB3R3.5	1-HD15 (f,f), 3 RCA, 1- 3.5mm Audio- White
CN-SSHDTBV	1-HD15 Term. Block, 1 RCA- Stainless
CN-WSHDTBV	1-HD15 Term. Block, 1 RCA- White
CN-SSHDTV	1-HD15 (f-f), 1 RCA- Stainless
CN-WSHDTV	1-HD15 (f,f), 1 RCA- White
CN-SSV3.5	1 RCA,1- 3.5mm Audio- Stainless
CN-WSV3.5	1 RCA,1- 3.5mm Audio- White
CN-SSRGBHV	5 BNC- Stainless
CN-WSRGBHV	5 BNC- White



Racks and Cabinets



West Penn Wire has developed the Rack & Cabinet section to compliment our cable and cable accessories. The racks and cabinet section provides a variety of innovative metal enclosures of varying dimensions and functionalities.

Our cabinets and racks provide the most versatile cabinetry with the best features, options, and value. This includes optional air condition. All cabinets are equipped with casters and leveling legs as a standard. All glass doors are tempered glass with a slight tint. They will not scratch, fade, or yellow.

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Racks and Cabinets

Data Standard 29"W x 30"D



Front Door

Solid Front Door

- 4829-SF-C Solid Steel Front Door w/Latch & Lock
- 7229-SF-C Solid Steel Front Door w/Latch & Lock
- 7829-SF-C Solid Steel Front Door w/Latch & Lock
- 8429-SF-C Solid Steel Front Door w/Latch & Lock

Tempered Glass Front Door

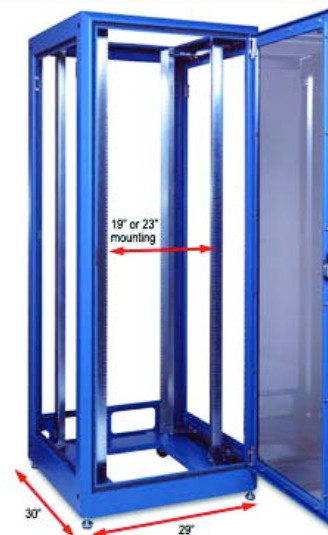
- 4829-GF-C Tempered Glass Front Door w/Latch & Lock
- 7229-GF-C Tempered Glass Front Door w/Latch & Lock
- 7829-GF-C Tempered Glass Front Door w/Latch & Lock
- 8429-GF-C Tempered Glass Front Door w/Latch & Lock

Vented Front Door

- 4829-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 7229-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 7829-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 8429-VF-C Tempered Glass Front Vented Door w/Latch & Lock

Perforated Front Door

- 4829-PD-C Perforated Steel Front Door w/Latch & Lock
- 7229-PD-C Perforated Steel Front Door w/Latch & Lock
- 7829-PD-C Perforated Steel Front Door w/Latch & Lock
- 8429-PD-C Perforated Steel Front Door w/Latch & Lock



Rear Door

Solid Rear Door

- 4829-SR-C Solid Steel Rear Door w/Latch & Lock
- 7229-SR-C Solid Steel Rear Door w/Latch & Lock
- 7829-SR-C Solid Steel Rear Door w/Latch & Lock
- 8429-SR-C Solid Steel Rear Door w/Latch & Lock

Vented Rear Door

- 4829-VR-C Vented Steel Rear Door w/Latch & Lock
- 7229-VR-C Vented Steel Rear Door w/Latch & Lock
- 7829-VR-C Vented Steel Rear Door w/Latch & Lock
- 8429-VR-C Vented Steel Rear Door w/Latch & Lock



Side Panels

Single Side Panel

- 4801-SP-C One Solid Lift Off Side Panel w/Lock
- 7201-SP-C One Solid Lift Off Side Panel w/Lock
- 7801-SP-C One Solid Lift Off Side Panel w/Lock
- 8401-SP-C One Solid Lift Off Side Panel w/Lock

Pair Side Panel

- 4802-SP-C Two Solid Lift Off Side Panels w/Lock
- 7202-SP-C Two Solid Lift Off Side Panels w/Lock
- 7802-SP-C Two Solid Lift Off Side Panels w/Lock
- 8402-SP-C Two Solid Lift Off Side Panels w/Lock

Single Side Panel

- 4801-SPP-C One Perforated Lift Off Side Panel w/Lock
- 7201-SPP-C One Perforated Lift Off Side Panel w/Lock
- 7801-SPP-C One Perforated Lift Off Side Panel w/Lock
- 8401-SPP-C One Perforated Lift Off Side Panel w/Lock

Pair Side Panel

- 4802-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 7202-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 7802-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 8402-SPP-C Two Perforated Lift Off Side Panels w/Lock

Available Colors:

(1) Blue, (2) Beige, (3) Black, (4) Gray

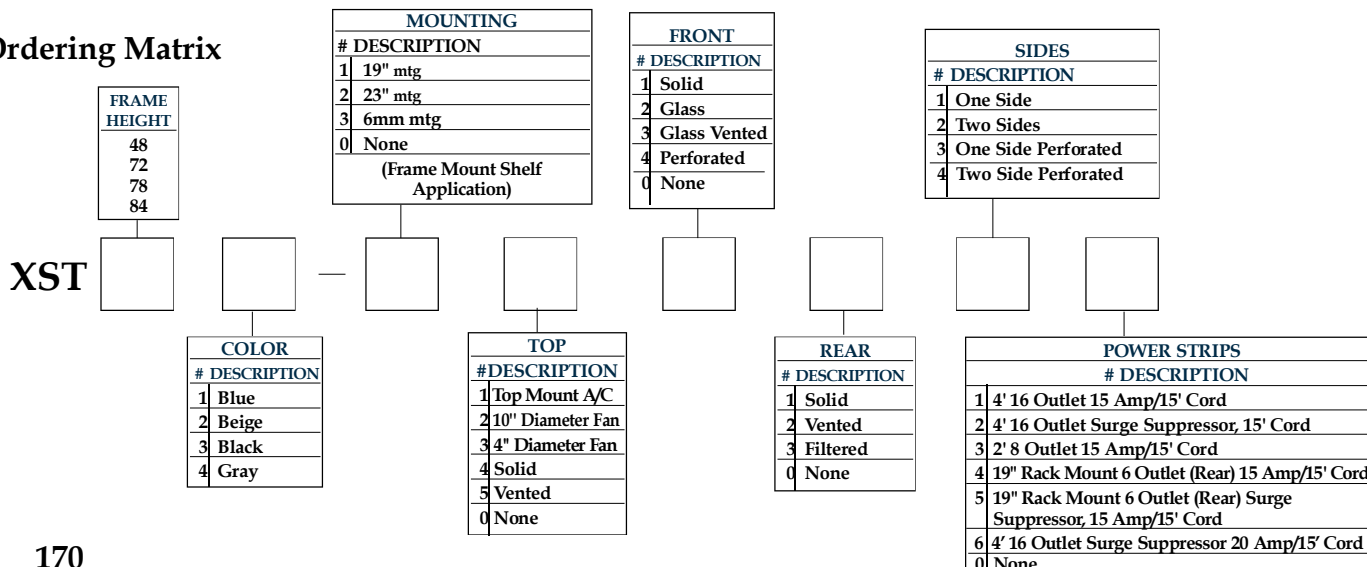


Data Standard

CATALOG #		Height	Width	Depth	Weight	Mounting Options	Rack Spaces
XST48-C	Frame, Gland Plate, Casters & Levelers	48"	29"	30"	230	19", 23"	25μ
XST72-C	Frame, Gland Plate, Casters & Levelers	72"	29"	30"	325	19", 23"	39μ
XST78-C	Frame, Gland Plate, Casters & Levelers	78"	29"	30"	350	19", 23"	42μ
XST84-C	Frame, Gland Plate, Casters & Levelers	84"	29"	30"	360	19", 23"	46μ

* EIA- 310-D Compliant

Ordering Matrix



Racks and Cabinets

Data Deep 29"W x 34"D



Rear Door

Solid Rear Door

- 7229-SR-C Solid Steel Rear Door w/Latch & Lock
- 7829-SR-C Solid Steel Rear Door w/Latch & Lock
- 8429-SR-C Solid Steel Rear Door w/Latch & Lock

Vented Rear Door

- 7229-VR-C Vented Steel Rear Door w/Latch & Lock
- 7829-VR-C Vented Steel Rear Door w/Latch & Lock
- 8429-VR-C Vented Steel Rear Door w/Latch & Lock

Filtered Rear Door

- 7229-FR-C Filtered Rear Door w/Latch & Lock
- 7829-FR-C Filtered Rear Door w/Latch & Lock
- 8429-FR-C Filtered Rear Door w/Latch & Lock

Available Colors:

- (1) Blue, (2) Beige, (3) Black, (4) Gray



Deep

Front Door

Solid Front Door

- 7229-SF-C Solid Steel Front Door w/Latch & Lock
- 7829-SF-C Solid Steel Front Door w/Latch & Lock
- 8429-SF-C Solid Steel Front Door w/Latch & Lock

Tempered Glass Front Door

- 7229-GF-C Tempered Glass Front Door w/Latch & Lock
- 7829-GF-C Tempered Glass Front Door w/Latch & Lock
- 8429-GF-C Tempered Glass Front Door w/Latch & Lock

Vented Front Door

- 7229-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 7829-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 8429-VF-C Tempered Glass Front Vented Door w/Latch & Lock

Perforated Front Door

- 7229-PD-C Perforated Steel Front Door w/Latch & Lock
- 7829-PD-C Perforated Steel Front Door w/Latch & Lock
- 8429-PD-C Perforated Steel Front Door w/Latch & Lock



Side Panels

Single Side Panel

- 7201-SP-C One Solid Lift Off Side Panel w/Lock
- 7801-SP-C One Solid Lift Off Side Panel w/Lock
- 8401-SP-C One Solid Lift Off Side Panel w/Lock

Pair Side Panel

- 7202-SP-C Two Solid Lift Off Side Panels w/Lock
- 7802-SP-C Two Solid Lift Off Side Panels w/Lock
- 8402-SP-C Two Solid Lift Off Side Panels w/Lock

Single Side Panel

- 7201-SPP-C One Perforated Lift Off Side Panel w/Lock
- 7801-SPP-C One Perforated Lift Off Side Panel w/Lock
- 8401-SPP-C One Perforated Lift Off Side Panel w/Lock

Pair Side Panel

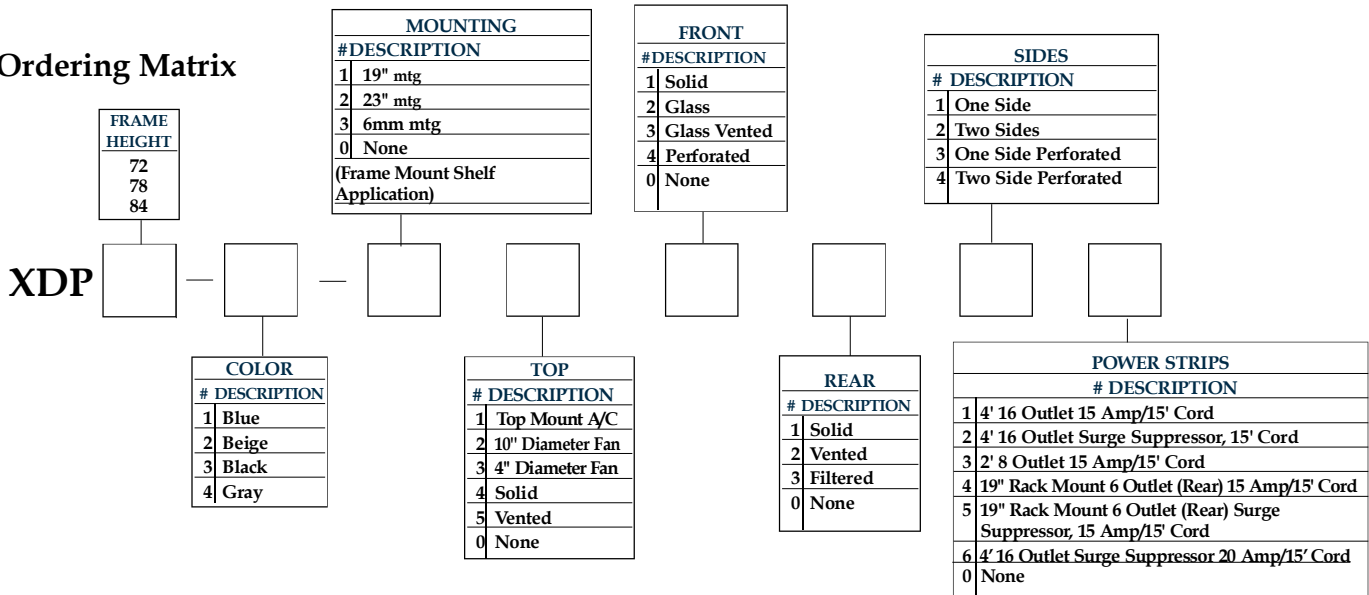
- 7202-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 7802-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 8402-SPP-C Two Perforated Lift Off Side Panels w/Lock



CATALOG #		Height	Width	Depth	Weight	Mounting Options	Rack Spaces
XDP72-C	Frame, Gland Plate, Casters & Levelers	72"	29"	34"	350	19", 23"	39μ
XDP78-C	Frame, Gland Plate, Casters & Levelers	78"	29"	34"	380	19", 23"	42μ
XDP84-C	Frame, Gland Plate, Casters & Levelers	84"	29"	34"	390	19", 23"	46μ

* EIA- 310-D Compliant

Ordering Matrix

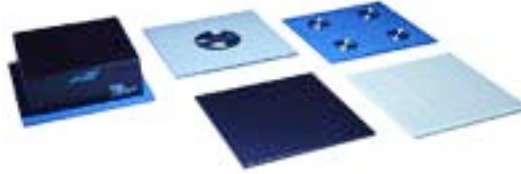


Racks and Cabinets

Data Standard , Data Deep & Data Slim Accessories

Removable Tops

2918-TP-3	10" Diameter Fan (550 CFM)
2918-TP-4	4" Diameter Fan (Four = 320 CFM)
2918-TP-1	Solid
2918-TP-2	Vented



Power Strips

9411-1602*	4' 16 Outlet Strip Surge Suppressor, 15' Power Cord UL Listed
9412-0801	2' 8 Outlet Strip 15 Amp/15' Power Cord UL Listed
9413-0601	19" Rack Mount 6 Outlet Strip (Rear) 15 Amp/15' Power Cord UL Listed
9414-0602	19" Rack Mount 6 Outlet Strip (Rear) Surge Suppressor, 15 Amp/15' Power Cord UL Listed
9415-1610 *	4' 16 outlet strip surge suppression 20Amp/15' powercord UL Listed



WP Partial Rails*

XRL3006-0300	19" 6U (10.5") Mounting Rails
XRL3012-0200	19" 12U (21.5") Mounting Rails
XRL3024-0100	19" 24U (42.5") Mounting Rails

*9410-1601 & 9411-1602 does not apply to 48" enclosure

Data Standard , Data Deep & Data Slim Features / Benefits

REVERSIBLE DOORS:

Front and Rear doors manufactured with spring loaded hinges to change door swing in the field from right or left hand hinge options. Critical when connecting enclosures together.



LIFT OFF SIDE PANELS

Flush surface lock, quick disconnect lift off side panels.



CABLE GLAND PLATE

Adjustable bottom plate to minimize dirt & dust entering the enclosure.



CABLE ACCESS TOP

Rubber gland access, 14.25" x 4" prevents dust from entering.



REAR CABLE PLATE

Two 3 7/8" x 8 1/2" openings for cable access with removable plates and edge grommet kit. Also, two 1.75" capping opening.



TEMPERED SAFETY GLASS

Strengthens door Enhances overall look No static discharge Non combustible material Tinted bronze Easy cleaning/Non scratching.



Racks and Cabinets

Data Slim 24"W x 30"D



Front Door

Solid Front Door

- 4824-SF-C Solid Steel Front Door w/Latch & Lock
- 7224-SF-C Solid Steel Front Door w/Latch & Lock
- 7824-SF-C Solid Steel Front Door w/Latch & Lock
- 8424-SF-C Solid Steel Front Door w/Latch & Lock

Tempered Glass Front Door

- 4824-GF-C Tempered Glass Front Door w/Latch & Lock
- 7224-GF-C Tempered Glass Front Door w/Latch & Lock
- 7824-GF-C Tempered Glass Front Door w/Latch & Lock
- 8424-GF-C Tempered Glass Front Door w/Latch & Lock

Vented Front Door

- 4824-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 7224-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 7824-VF-C Tempered Glass Front Vented Door w/Latch & Lock
- 8424-VF-C Tempered Glass Front Vented Door w/Latch & Lock

Perforated Front Door

- 4824-PD-C Perforated Steel Front Door w/Latch & Lock
- 7224-PD-C Perforated Steel Front Door w/Latch & Lock
- 7824-PD-C Perforated Steel Front Door w/Latch & Lock
- 8424-PD-C Perforated Steel Front Door w/Latch & Lock

Rear Door

Solid Rear Door

- 4824-SR-C Solid Steel Rear Door w/Latch & Lock
- 7224-SR-C Solid Steel Rear Door w/Latch & Lock
- 7824-SR-C Solid Steel Rear Door w/Latch & Lock
- 8424-SR-C Solid Steel Rear Door w/Latch & Lock

Vented Rear Door

- 4824-VR-C Vented Steel Rear Door w/Latch & Lock
- 7224-VR-C Vented Steel Rear Door w/Latch & Lock
- 7824-VR-C Vented Steel Rear Door w/Latch & Lock
- 8424-VR-C Vented Steel Rear Door w/Latch & Lock



Side Panels

Single Side Panel

- 4801-SP-C One Solid Lift Off Side Panel w/Lock
- 7201-SP-C One Solid Lift Off Side Panel w/Lock
- 7801-SP-C One Solid Lift Off Side Panel w/Lock
- 8401-SP-C One Solid Lift Off Side Panel w/Lock

Single Side Panel

- 4801-SPP-C One Perforated Lift Off Side Panel w/Lock
- 7201-SPP-C One Perforated Lift Off Side Panel w/Lock
- 7801-SPP-C One Perforated Lift Off Side Panel w/Lock
- 8401-SSPP-C One Perforated Lift Off Side Panel w/Lock

Pair Side Panel

- 4802-SP-C Two Solid Lift Off Side Panels w/Lock
- 7202-SP-C Two Solid Lift Off Side Panels w/Lock
- 7802-SP-C Two Solid Lift Off Side Panels w/Lock
- 8402-SP-C Two Solid Lift Off Side Panels w/Lock

Pair Side Panel

- 4802-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 7202-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 7802-SPP-C Two Perforated Lift Off Side Panels w/Lock
- 8402-SPP-C Two Perforated Lift Off Side Panels w/Lock

Available Colors:

(1) Blue, (2) Beige, (3) Black, (4) Gray

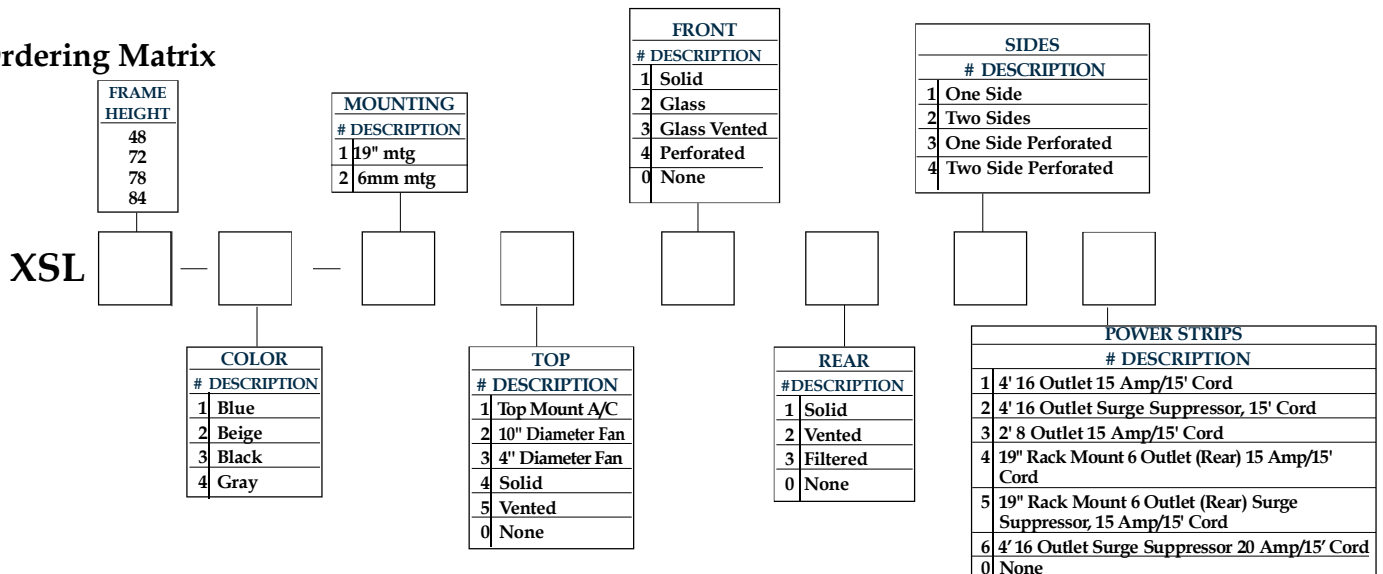


Data Slim

Catalog#		Height	Width	Depth	Weight	Mounting	Rack Spaces
XSL48-C	Frame, 2 pr 19" mtg Rails, Casters & Levelers	48"	24"	30"	230	19"	25μ
XSL72-C	Frame, 2 pr 19" mtg Rails, Casters & Levelers	72"	24"	30"	320	19"	39μ
XSL78-C	Frame, 2 pr 19" mtg Rails, Casters & Levelers	78"	24"	30"	340	19"	42μ
XSL84-C	Frame, 2 pr 19" mtg Rails, Casters & Levelers	84"	24"	30"	350	19"	46μ

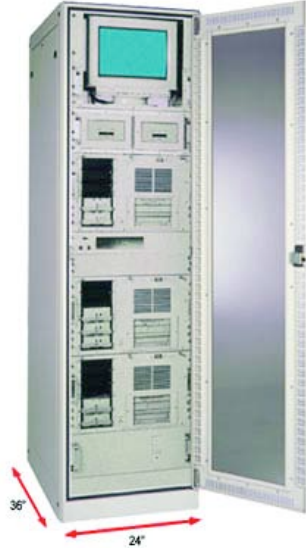
* EIA- 310-D Compliant

Ordering Matrix



Racks and Cabinets

Ultra Server 24"W x 36"D



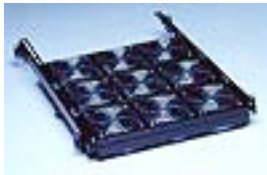
Available Colors:

(2) Beige, (3) Black



Tops/Cooling Devices

9315-7200	19" Fan Tray (9-4" fans = 720 FM)
2430-TP-3-C	10" Diameter Fan (550 CFM)
2430-TP-4-C	4" Diameter Fan (Four = 320 CFM)
2430-TP-1-C	Solid
2430-TP-6-C	Perforated



Front Door

Glass Vented Front Door

7824-SVF-C	Tempered Glass Front Door w/Latch & Lock
8424-SVF-C	Tempered Glass Front Door w/Latch & Lock

Perforated Front Door

7824-SPR-C	Perforated Steel Front Door w/Latch & Lock
8424-SPR-C	Perforated Steel Front Door w/Latch & Lock

Rear Door

Perforated Rear Door

7824-SPR-C	Perforated Rear Door w/Latch & Lock
8424-SPR-C	Perforated Rear Door w/Latch & Lock

Glass Rear Door

7824-SVF-C	Tempered Glass Rear Door w/Latch & Lock
8424-SVF-C	Tempered Glass Rear Door w/Latch & Lock

Side Panels

Single Side Panel

7836-01-SP-C	One Solid Lift Off Side Panel w/Lock
8436-01-SP-C	One Solid Lift Off Side Panel w/Lock
7836-01-SPP-C	One Perforated Lift Off Side Panel w/Lock
8436-01-SPP-C	One Perforated Lift Off Side Panel w/Lock

Pair Side Panel

7836-02-SP-C	Two Solid Lift Off Side Panel w/Lock
8436-02-SP-C	Two Solid Lift Off Side Panel w/Lock
7836-02-SPP-C	Two Perforated Lift Off Side Panel w/Lock
8436-02-SPP-C	Two Perforated Lift Off Side Panel w/Lock



Power Strips

9411-1602S	4' 16 Outlet Strip Surge Suppressor, 15' Power Cord UL Listed
9412-0801S	2' 8 Outlet Strip 15 Amp/15' Power Cord UL Listed
9413-0601	19" Rack Mount 6 Outlet Strip (Rear) 15 Amp/15' Power Cord UL Listed
9414-0602	19" Rack Mount 6 Outlet Strip (Rear) Surge Suppressor, 15 Amp/15' Power Cord UL Listed
9415-1610 S	4' 16 outlet strip surge suppression 20Amp/ 15' powercord UL Listed

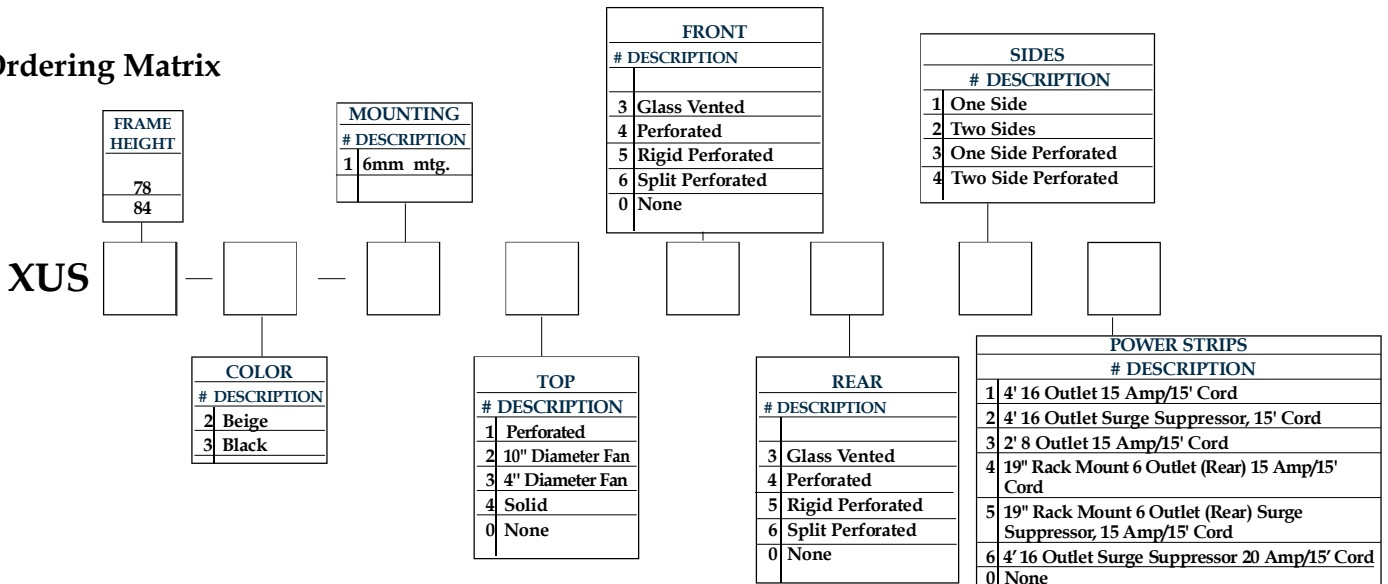


Ultra Server

Catalog#		Height	Width	Depth	Weight	Mounting	Rack Spaces
XUS78-C	Frame, 3 pr 19" mtg Rails, Casters & Levelers	78"	24"	36"	350	19"	4 2 μ
XUS84-C	Frame, 3 pr 19" mtg Rails, Casters & Levelers	84"	24"	36"	370	19"	4 5 μ

* EIA- 310-D Compliant

Ordering Matrix



Racks and Cabinets

Ultra Deep Server 24"W x 42"D



Available Colors:

(2) Beige, (3) Black



Front Door

8424-DSPR-C Rigid Perforated Front Door w/ Swing Handle Latch & Lock
8424-DSVF-C Tempered Glass Front (Vented) Door w/Swing Handle Latch & Lock

Rear Door

8424-DSSR-C Split Rear (French Style) Perforated w/Swing Handle Latch & Lock
8424-DSPR-C Rigid Perforated Door w/ Swing Handle Latch & Lock
8424-DSVR-C Rigid Perforated Rear Door w/ Swing Handle Latch & Lock

Side Panels

Single Side Panel

8436-01-SP-C One Solid Lift Off Side Panel w/Lock
8436-01-SPP-C One Perforated Lift Off Side Panel w/Lock

Pair Side Panel

8436-02-SP-C Two Solid Lift Off Side Panel w/Lock
8436-02-SPP-C Two Perforated Lift Off Side Panel w/Lock

Cable Management Troughs

433-5114 76.5" Steel Vertical Trough
433-5115F Steel Front Trough
433-5115R Steel Rear Trough
433-5118 Steel Side Trough

Tops/Cooling Devices

9315-7200 19" Fan Tray (9-4" fans = 720 FM)
2430-TP-3-C 10" Diameter Fan (550 CFM)
2430-TP-4-C 4" Diameter Fan (Four = 320 CFM)
2430-TP-1-C Solid
2430-TP-6-C Perforated



Power Strips

9411-1602S 4' 16 Outlet Strip Surge Suppressor, 15' Power Cord UL Listed
9412-0801S 2' 8 Outlet Strip 15 Amp/15' Power Cord UL Listed
9413-0601 19" Rack Mount 6 Outlet Strip (Rear) 15 Amp/15' Power Cord UL Listed
9414-0602 19" Rack Mount 6 Outlet Strip (Rear) Surge Suppressor, 15 Amp/15' Power Cord UL Listed
9415-1610 S 4' 16 outlet strip surge suppression 20Amp/ 15' powercord UL Listed



Ultra Server

Catalog#

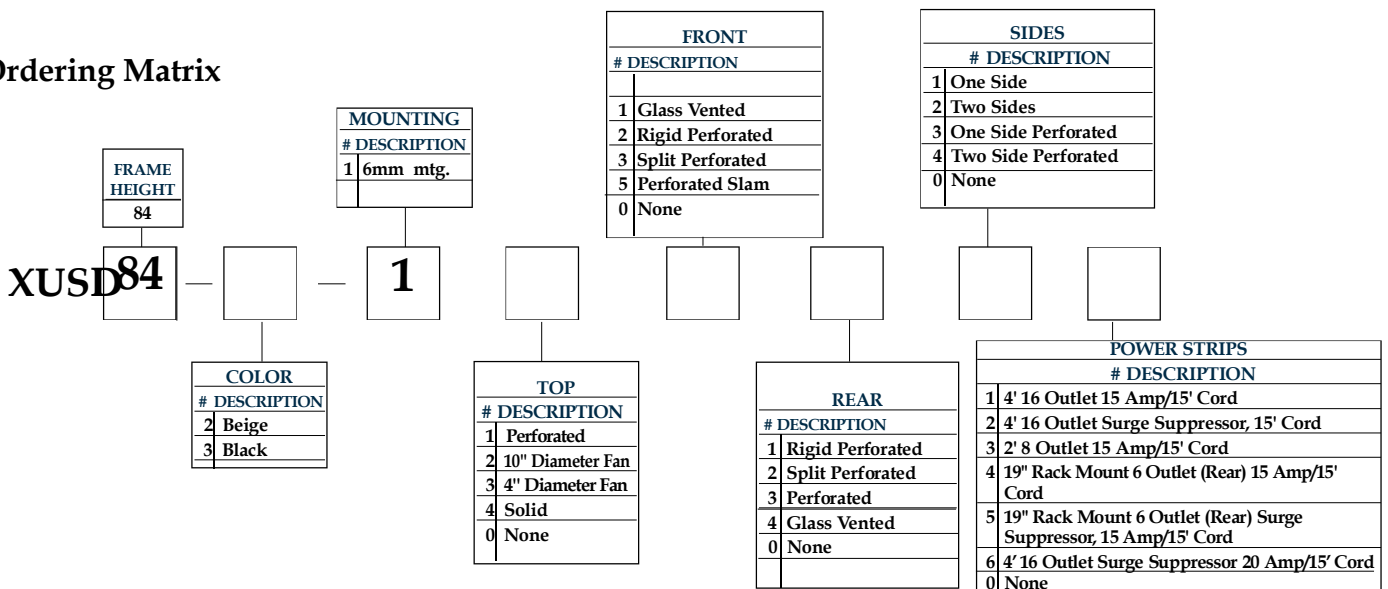
XUSD84-C

Frame, 3 pr 19" mtg Rails, Casters & Levelers

Height 84" Width 24" Depth 42" Weight 400 Mounting 19" Rack Spaces 4 5 μ

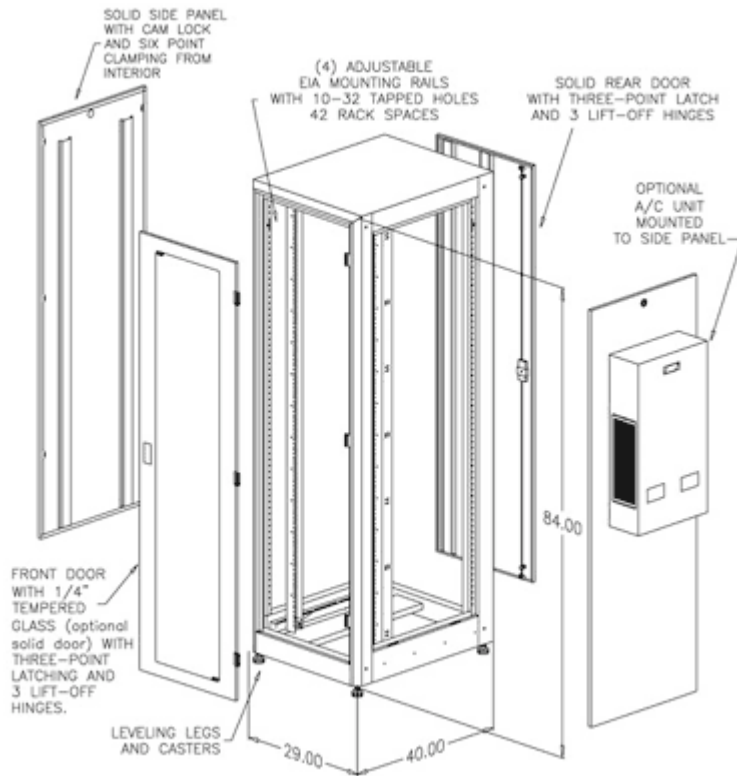
* EIA- 310-D Compliant

Ordering Matrix



Racks and Cabinets

Ultra Server 29"W x 40"D



Ordering Matrix

XNM	FRAME HEIGHT 84	3	MOUNTING	FRONT	SIDES	TOP	REAR	POWER STRIPS
	# DESCRIPTION							
	84		1 19" mtg 2 23" mtg 0 None	1 Solid 2 Glass 3 Filtered	1 One Side 2 Two Side	1 2500 BTU A/C 2 5000 BTU A/C 0 None	1 Solid 2 Glass 3 Fan/Filtered	2 4' 16 Outlet Surge Suppressor, 15' Cord 3 2' 8 Outlet 15 Amp/15' Cord 4 19" Rack Mount 6 Outlet (Rear) 15 Amp/15' Cord 5 19" Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15' Cord 6 4' 16 Outlet Surge Suppressor 20 Amp/15' Cord 0 None

Features:

- Dust-free NEMA-12 enclosure used primarily in areas with high levels of dust and dirt and airborne particles.
- Meets NEMA-12 requirements for a dust-free environment
- Organizes and secures data and telecommunications equipment
- 3 point lift and turn latches for secure locking
- Dust-free cable entry and exit

Racks and Cabinets

Wall Mount Solutions



Available Colors:

(2) Beige, (3) Black



Wall Max

CATALOG #	DESCRIPTION	Height	Width	Depth	Weight	Mounting	Rack Spaces
XWM-2420-GD-C	24" Wall Mount 20" Depth w/Glass Door w/Lock	24"	21.25"	20 5/8"	75	19"	12 μ
XWM-2424-GD-C	24" Wall Mount 24" Depth w/Glass Door w/Lock	24"	21.25"	24 5/8"	80	19"	12 μ
XWM-3620-GD-C	36" Wall Mount 20" Depth w/Glass Door w/Lock	36"	21.25"	20 5/8"	90	19"	18 μ
XWM-3624-GD-C	36" Wall Mount 24" Depth w/Glass Door w/Lock	36"	21.25"	24 5/8"	98	19"	18 μ
XWM-4820-GD-C	48" Wall Mount 20" Depth w/Glass Door w/Lock	48"	21.25"	20 5/8"	120	19"	25 μ
XWM-4824-GD-C	48" Wall Mount 24" Depth w/Glass Door w/Lock	48"	21.25"	20 5/8"	135	19"	25 μ
XWM-2420-SD-C	24" Wall Mount 20" Depth Solid Door w/Lock	24"	21.25"	20 5/8"	70	19"	12 μ
XWM-2424-SD-C	24" Wall Mount 24" Depth Solid Door w/Lock	24"	21.25"	24 5/8"	75	19"	12 μ
XWM-3620-SD-C	36" Wall Mount 20" Depth Solid Door w/Lock	36"	21.25"	20 5/8"	85	19"	18 μ
XWM-3624-SD-C	36" Wall Mount E 24" Depth Solid Door w/Lock	36"	21.25"	20 5/8"	95	19"	18 μ
XWM-4820-SD-C	48" Wall Mount 20" Depth Solid Door w/Lock	48"	21.25"	20 5/8"	110	19"	25 μ
XWM-4824-SD-C	48" Wall Mount 24" Depth Solid Door w/Lock	48"	21.25"	20 5/8"	125	19"	25 μ
XWM-2406-GD-C	24" Wall Mount 6" Depth w/Glass Door w/Lock	24"	21.25"	6 5/8"	40		
XWM-3606-GD-C	36" Wall Mount 6" Depth w/Glass Door w/Lock	36"	21.25"	6 5/8"	45		
XWM-4806-GD-C	48" Wall Mount 6" Depth w/Glass Door w/Lock	48"	21.25"	6 5/8"	75		
XWM-2406-SD-C	24" Wall Mount 6" Depth Solid Door w/Lock	24"	21.25"	6 5/8"	35		
XWM-3606-SD-C	36" Wall Mount 6" Depth Solid Door w/Lock	36"	21.25"	6 5/8"	45		
XWM-4806-SD-C	48" Wall Mount 6" Depth Solid Door w/Lock	48"	21.25"	6 5/8"	65		
XWM-2401	24" Plywood Back Board (Black) Kit						
XWM-3601	36" Plywood Back Board (Black) Kit						
XWM-4801	48" Plywood Back Board (Black) Kit						

Wall Max Accessories

9011-1912 19" Flush mounted Cantilevered shelf (vented) 12" depth
 XWM-9312-1600 Fan Assembly

POWER STRIPS

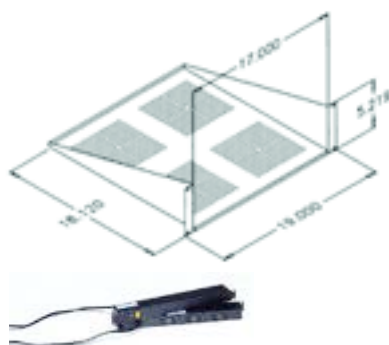
9413-0601 19" Rack Mount 6 Outlet Strip (Rear)
 15 Amp/15' Power Cord UL Listed
 9414-0602 19" Rack Mount 6 Outlet Strip (Rear) Surge Suppressor, 15
 Amp/15' Power Cord UL Listed

CASTERS

8912-0200-3 Casters/Leveler Base 20" or 24"

MOUNTING UPRIGHTS

XWM-2419 19" Mounting uprights 24"
 XWM-3619 19" Mounting uprights 36"
 XWM-4819 19" Mounting uprights 48"



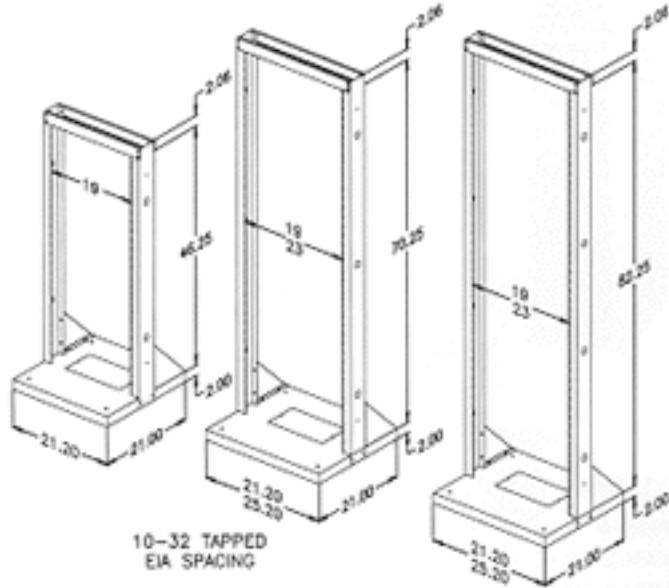
Racks and Cabinets

Distribution Racks



Free Standing Swing Rack

Catalog#	DESCRIPTION	Height	Weight
XSW-8419	84" Swing Rack 19"	84"	179#
XSW-0100	Power Strip Mounting Kit (mounting kit only) Pwr. Strip ordered separately.		
XSW-0200	Wire Basket (Top Mount) mounting brackets and wire basket 2" H x 8" W x 24" L		



Distribution Rack

Catalog#	DESCRIPTION	Height	Weight	Mounting
XDR-4819-4	48" Distribution Rack 19"	48"	34lb	19"
XDR-7219	72" Distribution Rack 19"	72"	43lb	19"
XDR-8419	84" Distribution Rack 19"	84"	50lb	19"
XDR-8419-4	84" Distribution Rack 19" 4 Channel double-sided tapped 12-24 EIA Spacing	84"	60lb	19"
XDR-7223-4	72" Distribution Rack 23"	72"	45lb	23"
XDR-8423-4	84" Distribution Rack 23"	84"	52lb	23"
8912-0100	Caster Kit for Racks			

Vertical Cable Manager

Catalog#	DESCRIPTION
XDR-7201	72" Vertical Cable Manager
XDR-8401	84" Vertical Cable Manager
XDR-8403	84" Vertical Cable Manager double sided w/ Cover

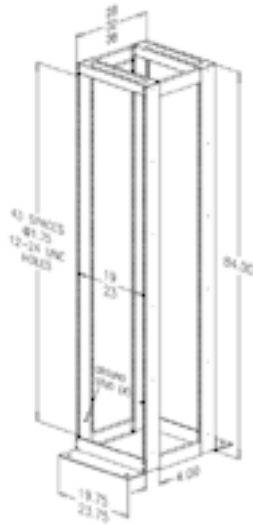
Racks and Cabinets

Distribution Racks



Cable Management Rack

Catalog#	DESCRIPTION	Height	Width	Weight	Mounting
XCR-8419	84" Cable Management Rack 19"	84"	25.75"	53lb	19"
XCR-8419-10	84"H Relay Rack, 10" Deep channel with cable management	84"	25.75"	53lb	19"



Server Rack

Catalog#	DESCRIPTION
XSR-8419-24	84" Four Post Rack, 19" Mtg. Depth 24"
XSR-8419-28	84" Four Post Rack, 19" Mtg. Depth 28"
XSR-8419-32	84" Four Post Rack, 19" Mtg. Depth 32"
XSR-8419-36	84" Four Post Rack, 19" Mtg. Depth 36"
XSR-8423-24	84" Four Post Rack, 23" Mtg. Depth 24"
XSR-8423-28	84" Four Post Rack, 23" Mtg. Depth 28"
XSR-8423-32	84" Four Post Rack, 23" Mtg. Depth 32"
XSR-8423-36	84" Four Post Rack, 23" Mtg. Depth 36"

Wall Mount Racks

Catalog#	DESCRIPTION	Height	Width	Weight	Mounting	Depth
XWR-4819	48" Adjustable Wall Mount Swing Rack	48"	20"	39lb	19"	11.5-15.5"
XWR-4819-12	48" Swing out Equipment Rack 19" Mtg.	48"	20"	39lb	19"	12"
XWR-4819-18	48" Swing out Equipment Rack 19" Mtg.	48"	20"	39lb	19"	18"
XWR-3619-12	36" Swing out Equipment Rack 19" Mtg.	36"	20"	30lb	19"	12"
XWR-3619-18	36" Swing out Equipment Rack 19" Mtg.	36"	20"	30lb	19"	18"

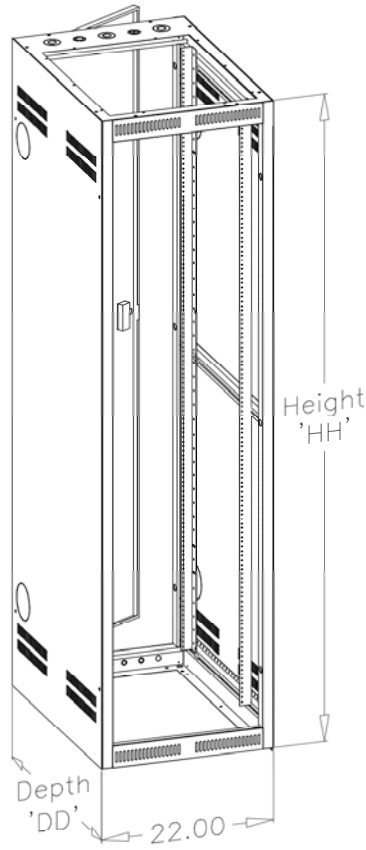


Wall Mount Racks - Hinged

Catalog#	DESCRIPTION	Height	Width	Weight	Mounting	Depth
XWR-1219	Rack with swing out panel mount (19" EIA x 6U0 and adjustable lower shelf (2" to 11" high equipment clearance).	10.9"	19.5"	26lb	19"	9.5"
Catalog#	DESCRIPTION	Height	Width	Weight	Mounting	Depth
XER-6X6	Wall mount rack 12" depth 10.5" Vertical 19"	16.5"	19.25"	17lb	19"	10.88 (16.88 w/extenders)
XER-AS	Lower Adjustable shelf					
XER-6UP	19" hinged panel w/6" extension brackets					
XER-3UC	Hinged dust cover					

Racks and Cabinets

XME Series- Stand-Alone or Gangable Rack/Enclosure



Design Features

- Fully welded construction, with 16 gauge one piece formed vented sides, 16 gauge formed bottom and 16 gauge formed top. Top and bottom EIA rail support channels are an integral part of the top and bottom. Formed center rail support channels are spot welded to the sides.
- Four 12 gauge EIA mounting angles 10-32 tap, fully adjustable front and rear. Rails can be removed from frame without removing hardware. Rack unit marking on all rails.
- Frame is available with optional front & rear surface mount doors in solid, glass or perforated with a swing latch with lock. Doors mounted with lift off hinges capable of 180 degree swing even when cabinets are ganged. The door swing is field reversible.
- Finished in durable black textured powder coat.

Cable Management

- Various sizes of electrical knockouts from 1/2 to 1.5 across the width of the rear header and footer.
- Electrical knockouts of 1, 1.5, and 2 on the top and rear of rack
- Lasered 4" electrical knockouts in side panels in the rear for cable pass through when ganging. Supplied with edge guard to protect cable.

Available Sizes:

RU	24	35	40	44
Height (HH) inches	48.12	67.37	76.12	83.12
Depth				
20 P.N.	XME2420	XME3520	XME4020	XME4420
26 P.N.	XME2426	XME3526	XME4026	XME4426

Door Options

RU	24	35	40	44
Height (HH) inches	48.12	67.37	76.12	83.12
Tempered Glass P.N.	2422GD	3522GD	4022GD	4422GD
Solid P.N.	2422SD	3522SD	4022SD	4422SD
Perforated P.N.	2422PD	3522PD	4022PD	4422PD

Top Panel Options

Depth	Solid	Vented	10" Fan	(4) 4" Fans
20 P.N.	2214TP1	2214TP2	2214TP3	2214TP4
26 P.N.	2220TP1	2220TP2	2220TP3	2220TP4

Caster Base

Recessed base	20	26		
P.N.	2220CB1	2226CB1		

EIA rail Kits- Pair

RU	24	35	40	44
Height (HH) inches	48.12	67.37	76.12	83.12
10-32 Tap P.N.	XME24RT10	XME35RT10	XME40RT10	XME44RT10

Note: Caster bases install directly to bottom flanges of enclosure and recesses the casters in the base to allow the leveling legs to be lowered when cabinet is in position and raise the casters off the floor.

Side Vent Kit

P.N.	XMESVC	Side vent cover kit
P.N.	XMEFVC	Front vent cover kit

XME Series is comparable to:

Mid Atlantic- ERK Series
Lowell- L-265 & L-267

Other Accessories

P.N.	9512-1903	Lacing Bar
P.N.	XMELM	Top mounted Ladder Rack Support
P.N.	XMEW44	Front mount work Surface 2 bay 44"
P.N.	XMEW66	Front mount work surface 3 bay 66"
P.N.	RMD2	2U drawers Rack mount
P.N.	RMD3	3U drawers Rack mount
P.N.	RMD4	4U drawers Rack mount
P.N.	RMD5	5U drawers Rack mount
P.N.	LP24	24U Cable Mgmt. Lacing Panel
P.N.	LP35	35U Cable Mgmt. Lacing Panel
P.N.	LP40	40U Cable Mgmt. Lacing Panel
P.N.	LP44	44U Cable Mgmt. Lacing Panel
P.N.	XMEBK01	Adjoining Kit (4) 1/4" whiz bolt/nuts
P.N.	XMEGK01	Grounding kit- straps 1/4" wing nuts
P.N.	XMEEG01	Edge Guard kit

Racks and Cabinets

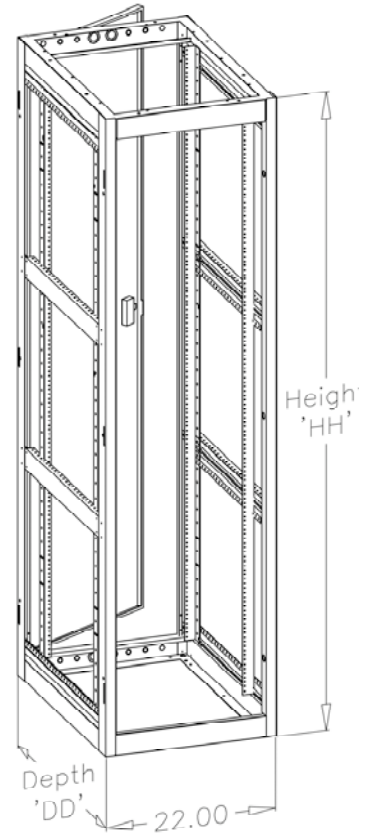
XMER Series- Stand-Alone or Gangable Rack/Enclosure

Design Features

- See XME Series

Cable Management

- Numerous lacing points on two surfaces of each rail support to facilitate cable management.
- Various sizes of electrical knockouts from 1/2 to 1.5 across the width of the rear header and footer.
- Cable tie holes entire length of EIA rail on the attachment flange spaced at 1.75.



Available Sizes:					
RU		24	35	40	44
Height (HH) inches		48.12	67.37	76.12	83.12
Depth					
26.5	P.N.	XMER2426	XMER3526	XMER4026	XMER4426
31.5	P.N.	XMER2431	XMER3531	XMER4031	XMER4431
36	P.N.	N/A	XMER3536	XMER4036	XMER4436

Note: Frames are available with 1/8 and 3/4 flat cable tie bars welded to frame. To order add TB to Above P.N.

Door Options

RU		24	35	40	44
Height (HH) inches		48.12	67.37	76.12	83.12
Tempered Glass	P.N.	2422GD	3522GD	4022GD	4422GD
Solid	P.N.	2422SD	3522SD	4022SD	4422SD
Perforated	P.N.	2422PD	3522PD	4022PD	4422PD

Side Panel Options

26.5	P.N.	242601SP	352601SP	402601SP	442601SP
31.5	P.N.	243101SP	353101SP	403101SP	443101SP
36	P.N.	N/A	353601SP	403601SP	443601SP

Top Panel Options

Depth		Solid	Vented	10" Fan	(4) 4" Fans
26.5	P.N.	2226TP1	2226TP2	2226TP3	2226TP4
31.5	P.N.	2231TP1	2231TP2	2231TP3	2231TP4
36	P.N.	N/A	2236TP2	2236TP3	2236TP4

Caster Base

Recessed base		20	26		
	P.N.	2220CB1	2226CB1		

EIA rail Kits- Pair

RU		24	35	40	44
Height (HH) inches		48.12	67.37	76.12	83.12
10-32 Tap	P.N.	XME24RT10	XME35RT10	XME40RT10	XME44RT10

Other Accessories

P.N.	9512-1903	Lacing Bar
P.N.	XMELM	Top mounted Ladder Rack Support
P.N.	XMEW44	Front mount work Surface 2 bay 44"
P.N.	XMEW66	Front mount work surface 3 bay 66"
P.N.	RMD2	2U drawers Rack mount
P.N.	RMD3	3U drawers Rack mount
P.N.	RMD4	4U drawers Rack mount
P.N.	RMD5	5U drawers Rack mount
P.N.	LP24	24U Cable Mgmt. Lacing Panel
P.N.	LP35	35U Cable Mgmt. Lacing Panel
P.N.	LP40	40U Cable Mgmt. Lacing Panel
P.N.	LP44	44U Cable Mgmt. Lacing Panel
P.N.	XMERSB	Seismic Anchor - Bracket Kit
P.N.	XMEBKK01	Adjoining kit- straps 1/4" wing nuts
P.N.	XMEGK01	Grounding Kit

Cable Tie Mount

P.N.	XMFCM	10pc. Cable tie Mount
P.N.	XCTV12	Velcro 12" long
P.N.	XCTV18	Velcro 18" long
P.N.	XCTV24	Velcro 24" long

XMER Series is comparable to:

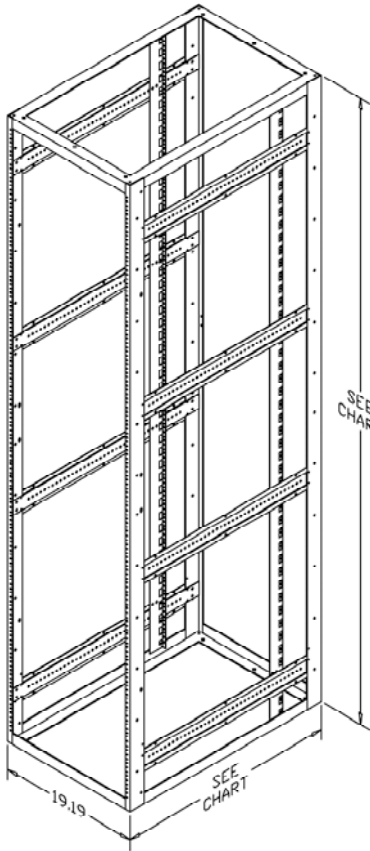
Mid Atlantic- MRK Series

Lowell- L-275 & L-279

Great Lakes- GL840s2-2432 & GL840s-2436

Racks and Cabinets

XSF Series- Slim Rack Stand-Alone/ Gangable



Design Features

- Fully welded construction, with 11 gauge steel one piece formed top and bottom and 11 gauge steel formed vertical corner posts. Front corner post contains EIA-310 hole pattern tapped 10-32 or 12-24. Rail support channels are 16 gauge steel, riveted and welded in place.
- Supplied with one pair of 16 gauge steel EIA rails moveable front to rear in .625" increments. Each frame is supplied with (40) 10-32 or 12-24 clip nuts for attaching equipment to the pair of moveable rails.
- Holes in side flanges of each corner post of rack for ganging.
- Open bottom with hole pattern for bolting frame to the floor or base.
- Finished in durable black textured powder coat.

Cable Management

- Tops, Solid Sides and Rear Doors available as custom options upon request.

Available Sizes: FRAME

RU	48	47	46	44	42	39	34	31	29
Height (HH) inches	87	85.25	83.5	80	76.5	71.25	62.5	57.25	53.75
Depth/ Rail Type									
18/10-32 Tap	XSF481810	XSF471810	XSF461810	XSF441810	XSF421810	XSF391810	XSF341810	XSF311810	XSF291810
18/12-24 Tap	XSF481812	XSF471812	XSF461812	XSF441812	XSF421812	XSF391812	XSF341812	XSF311812	XSF291812
24/10-32 Tap	XSF482410	XSF472410	XSF462410	XSF442410	XSF422410	XSF392410	XSF342410	XSF312410	XSF292410
24/12-24 Tap	XSF482412	XSF472412	XSF462412	XSF442412	XSF422412	XSF392412	XSF342412	XSF312412	XSF292412
30/10-32 Tap	XSF483010	XSF473010	XSF463010	XSF443010	XSF423010	XSF393010	XSF343010	XSF313010	XSF293010
30/12-24 Tap	XSF483012	XSF473012	XSF463012	XSF443012	XSF423012	XSF393012	XSF343012	XSF313012	XSF293012

Available Sizes: FRAME

RU	28	19	14	11	10
Height (HH) inches	52	36.25	27.5	22.5	20.5
Depth/ Rail Type					
18/10-32 Tap	XSF281810	XSF191810	XSF141810	XSF111810	XSF101810
18/12-24 Tap	XSF281812	XSF191812	XSF141812	XSF111812	XSF101812
24/10-32 Tap	XSF282410	XSF192410	XSF142410	XSF112410	XSF102410
24/12-24 Tap	XSF282412	XSF192412	XSF142412	XSF112412	XSF102412
30/10-32 Tap	XSF283010	XSF193010	XSF143010	XSF113010	XSF103010
30/12-24 Tap	XSF283012	XSF193012	XSF143012	XSF113012	XSF103012

Racks and Cabinets

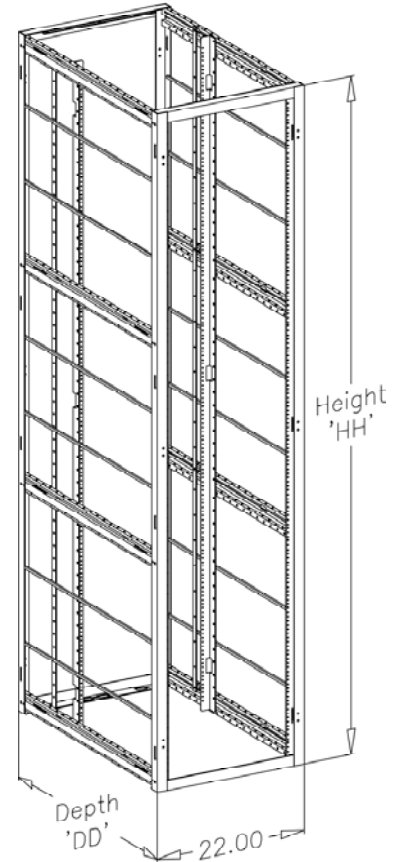
XMF Series- Stand-Alone or Gangable Rack/Enclosure

Design Features

- Fully welded construction, with 11 gauge corner posts, 11 gauge formed top and bottom members and 14 gauge formed rail supports.
- Four 12 gauge EIA mounting angles 10-32 tap, fully adjustable front and rear. Rails can be removed from frame without removing hardware. Rack unit marking on all rails.
- Doors mounted with lift off hinges capable of 180 degree swing even when cabinets are ganged. The door swing is field reversible.
- Finished in durable black textured powder coat.
- Open top with optional configurable panels.
- Open bottom with hole pattern for bolting frame to the floor or base.
- Ganging can be accomplished after equipment is placed in rack.
- Finished in durable black textured powder coat.

Cable Management

- Numerous lacing points on two surfaces of each rail support to facilitate cable management
- Cable tie holes entire length of EIA rail on the attachment flange spaced at 1.75.



Note: Frames are available with formed 16 ga. cable tie bars welded to the side of the frame.
To order a frame with tie bars- add suffix - TB to P.N. below

Available Sizes: FRAME

RU	57	52	51	50	49	48	46	45	44
Height (HH) inches	103	94	92.5	90.5	88.75	87	83.5	81.75	80
Depth									
24	XMF5724	XMF5224	XMF5124	XMF5024	XMF4924	XMF4824	XMF4624	XMF4524	XMF4424
30	XMF5730	XMF5230	XMF5130	XMF5030	XMF4930	XMF4830	XMF4630	XMF4530	XMF4430
36	XMF5736	XMF5236	XMF5136	XMF5036	XMF4936	XMF4836	XMF4636	XMF4536	XMF4436
40	XMF5740	XMF5240	XMF5140	XMF5040	XMF4940	XMF4840	XMF4640	XMF4540	XMF4440

Available Sizes: FRAME

RU	43	40	39	36	32	28	24	23	21
Height (HH) inches	78.25	73	71.25	66	59	52	45	43.25	39.75
Depth									
24	XMF4324	XMF4024	XMF3924	XMF3624	XMF3224	XMF2824	XMF2424	XMF2324	XMF2124
30	XMF4330	XMF4030	XMF3930	XMF3630	XMF3230	XMF2830	XMF2430	XMF2330	XMF2130
36	XMF4336	XMF4036	XMF3936	XMF3636	XMF3236	XMF2836	XMF2436	XMF2336	XMF2136
40	XMF4340	XMF4040	XMF3940	XMF3640	XMF3240	XMF2840	XMF2440	XMF2340	XMF2140

Available Sizes: FRAME

RU	20	19	17	16	14	13	12	11
Height (HH) inches	38	36.25	32.75	31	27.5	25.75	24	22.25
Depth								
24	XMF2024	XMF1924	XMF1724	XMF1624	XMF1424	XMF1324	XMF1224	XMF1124
30	XMF2030	XMF1930	XMF1730	XMF1630	XMF1430	XMF1330	XMF1230	XMF1130
36	XMF2036	XMF1936	XMF1736	XMF1636	XMF1436	XMF1336	XMF1236	XMF1136
40	XMF2040	XMF1940	XMF1740	XMF1640	XMF1440	XMF1340	XMF1240	XMF1140

Racks and Cabinets

XSF Series- Stand-Alone or Gangable Rack/Enclosure

EIA Rail Kit- 2 Pair (4 rail kit includes mounting hardware)									
RU	57	52	51	50	49	48	46	45	44
Height (HH) inches	103	94	92.5	90.5	88.75	87	83.5	81.75	80
Rail Style									
10-32 Tap	XMF57RT10	XMF52RT10	XMF51RT10	XMF50RT10	XMF49RT10	XMF48RT10	XMF46RT10	XMF45RT10	XMF44RT10
12-24 Tap	XMF57RT10	XMF52RT10	XMF51RT10	XMF50RT10	XMF49RT10	XMF48RT10	XMF46RT10	XMF45RT10	XMF44RT10

EIA Rail Kit- 2 Pair (4 rail kit includes mounting hardware)									
RU	43	40	39	36	32	28	24	23	21
Height (HH) inches	78.25	73	71.25	66	59	52	45	43.25	39.75
Rail Style									
10-32 Tap	XMF43RT10	XMF40RT10	XMF39RT10	XMF36RT10	XMF32RT10	XMF28RT10	XMF24RT10	XMF23RT10	XMF21RT10
12-24 Tap	XMF43RT10	XMF40RT10	XMF39RT10	XMF36RT10	XMF32RT10	XMF28RT10	XMF24RT10	XMF23RT10	XMF21RT10

EIA Rail Kit- 2 Pair (4 rail kit includes mounting hardware)									
RU	20	19	17	16	14	13	12	11	
Height (HH) inches	38	36.25	32.75	31	27.5	25.75	24	22.25	
Rail Style									
10-32 Tap	XMF20RT10	XMF19RT10	XMF17RT10	XMF16RT10	XMF14RT10	XMF13RT10	XMF12RT10	XMF11RT10	
12-24 Tap	XMF20RT10	XMF19RT10	XMF17RT10	XMF16RT10	XMF14RT10	XMF13RT10	XMF12RT10	XMF11RT10	

Cable Tie Mount		
P.N.	XMFCTM	10pc. Cable tie Mount
P.N.	XCTV12	Velcro 12" long
P.N.	XCTV18	Velcro 18" long
P.N.	XCTV24	Velcro 24" long

Additional Options are available for the XME Rack/Enclosure:

Option available:

Top Options

Door Options

Side Panel Options - Flush Flat Panel and Formed Surface Mount Panel

Base/ Caster Base

Vertical Lacing Bar

Vertical Lacing Panel

Vertical Ground Bar

Vertical Spacing Panel

Bolt Kits

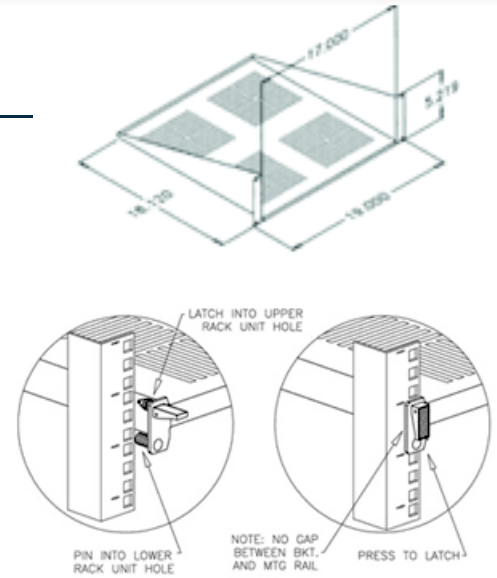
Contact West Penn Wire Engineering Department to get further details on the XME Options. [800-245-4964](tel:800-245-4964)

Racks and Cabinets

Shelving

19" Shelves

CATALOG #	DESCRIPTION
9010-1924	19" Adjustable Shelf (Vented) 4 Point Mounting 24" Depth, 200 lbs., Heavy Duty
9011-1912	19" Flush Mount Cantilevered Shelf (Vented) 12" Depth, Fits 20" Deep Wall Mount, 70 lbs., Heavy Duty
9011-1918	19" Flush Mount Cantilevered Shelf (Vented) 18" Depth, 75 lbs., Heavy Duty
9011-1918-16	19" Flush Mount Cantilevered Shelf (Vented) 18" Depth, 35 lbs., Medium Duty
9012-1912-18	19" Flush Mount Cantilevered Shelf (Solid) 12" Depth, 35 lbs., Medium Duty
9012-1918	19" Flush Mount Cantilevered Shelf (Solid) 18" Depth, 75 lbs., Heavy Duty
9012-1918-16	19" Flush Mount Cantilevered Shelf (Solid) 18" Depth, 35 lbs., Medium Duty
9013-1924	19" Sliding Adjustable Shelf (Vented) 4 Point Mounting 24" Depth, 120 lbs., Heavy Duty
9014-1907	19" Keyboard Shelf (Fixed Front of Mtg. Rail w/Mouse Pad)
9015-1909	19" Pivoting Keyboard Shelf
9309-0100	WP Cable Retractable Arm. Protects and manages slack cable off the back side of a sliding shelf as it is moved in and out of the cabinet. Mounts to standard WP four point sliding shelves between rear of shelf and rear EIA rail (9013-1924 & 9113-2324 only).

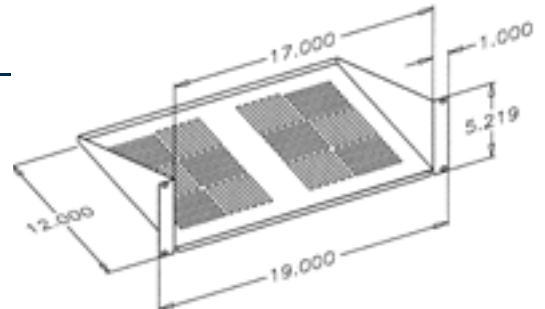


19" Quick Disconnect Shelves

CATALOG #	DESCRIPTION
9010-1930-Q	Quick disconnect shelf for 6mm mounting rails
9010-1924-Q	19" Mtg., 30" Depth WPDP & WPFS series only. 200lb load rating. 19" Mtg., 24" Depth all enclosures 200lb load rating. * Shelf color is black unless otherwise noted.

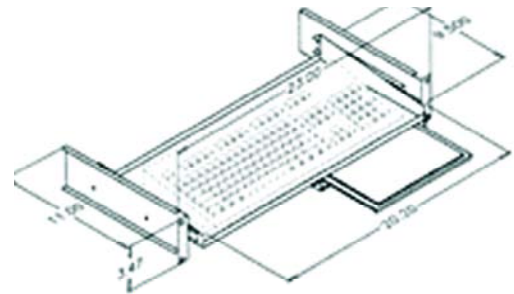
23" Shelves

CATALOG #	DESCRIPTION
9110-2324	23" Adjustable Shelf (Vented) 4 Point Mounting 24" Depth, 180 lbs., Heavy Duty
9111-2318	23" Flush Mount Cantilevered Shelf (Vented) 18" Depth, 75 lbs., Heavy Duty
9112-2318	23" Flush Mount Cantilevered Shelf (Solid) 18" Depth, 75 lbs., Heavy Duty
9113-2324	23" Sliding Adjustable Shelf (Vented) 4 Point Mounting 24" Depth, 120 lbs., Heavy Duty
9114-2307	23" Sliding Keyboard Shelf w/Mouse Pad



Frame Shelves

CATALOG #	DESCRIPTION
9210-2923	27.5" Wide Side Mount Shelf (Vented) 23.75" Depth, 180 lbs.
9211-2917	22.5" Wide Side Mount Sliding Shelf (Vented) 23.75" Depth, 120 lbs.
9212-2922	17" Wide Bottom Mount Sliding Server Shelf (Vented) 22" Depth, 120 lbs.



Other Accessories

Rack Extenders

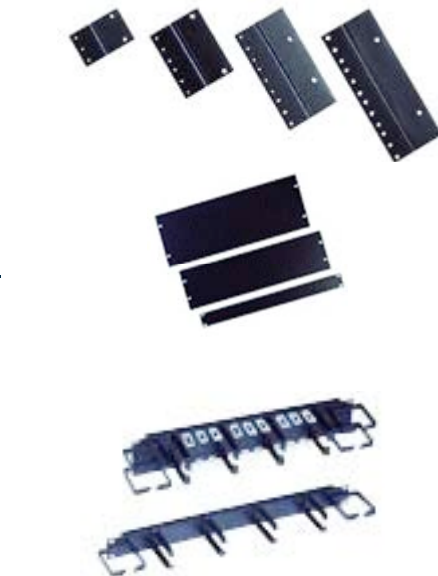
CATALOG #	DESCRIPTION
9810-0100	1 U 23" EIA 19" Reducer Bracket
9811-0200	2 U 23" EIA 19" Reducer Bracket
9812-0300	3 U 23" EIA 19" Reducer Bracket
9813-0400	4 U 23" EIA 19" Reducer Bracket

Filler Panels

CATALOG #	DESCRIPTION	CATALOG #	DESCRIPTION
9910-0100	1 U 19" Solid Filler Panel	9914-0200	2 U 19" Vented Filler Panel
9911-0200	2 U 19" Solid Filler Panel	9915-0300	3U 19" Vented Filler Panel
9912-0300	3 U 19" Solid Filler Panel	9916-0400	4 U 19" Vented Filler Panel
9913-0400	4 U 19" Solid Filler Panel		

Rack Mount Cable Management

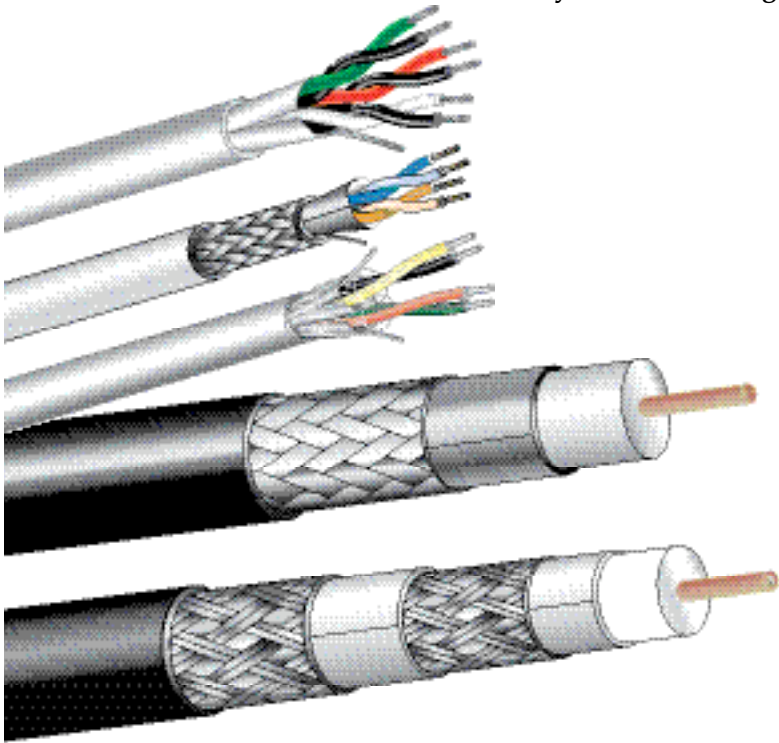
CATALOG #	DESCRIPTION
9510-1901	1 U 19" Cable Organizer
9511-1902	2 U 19" Cable Organizer w/ Saddle Ring
9512-1901	1 U 19" Rack mount cable organizer w/finger stock & cover (1.5"x 2")
9512-1902	2 U 19" Rack mount cable organizer w/finger stock & cover (3"x 3")
9513-1902	2 U 19" Rack mount cable organizer w/quick touch cable organizer (2"x 3")
9610-2301	1 U 23" Cable Organizer
9611-2302	2 U 23" Cable Organizer w/ Saddle Ring
9514-1901	19" Waterfall radius cable organizer



Technical Reference

This Technical Reference Section was developed as an aid to better understanding, specifying and installing electronic wire. The information contained in this section is written for the novice while still providing a quick reference of commonly used parameters for the experienced designer, engineer, consultant or installer.

This information should only be used as a general guideline. Various parameters such as the system type, electrical and mechanical characteristics, and environmental locations will determine your exact cabling needs.



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Technical Reference

Basic Cable Construction

A cable type is determined by the specifications of the system installed, basic electronic principles, and environment and regulatory agencies. These various criteria dictate the type of conductor(s), gauge of wire, type of insulation, twisted or cabled construction, type of jacket and if any shielding is required. A basic understanding of cable construction should be helpful in selecting and installing the proper cable for a particular system.

Conductors

Conductors for electronic cables can vary greatly from stranded conductors for maximum flexibility to copper covered steel which provides a stronger cable that will withstand a greater physical strain than copper. The American Society For Testing and Materials (ASTM) standards are followed for all of West Penn Wire conductor material. The ASTM standard defines standard requirements such as tensile strength, elongation, resistivity, dimensions, permissible variations, finish, inspection, and testing.

Conductor Material

There are several types of material that conduct electricity well (aluminum, nickel, gold, silver). However, copper is the most popular due to its excellent conductivity compared to other material cost. West Penn Wire uses a variety of conductors in our cable. Material used can be bare copper, tinned copper, and copper covered steel. The conductor can consist of solid or stranded construction. The type of conductor selected is determined by the application the cable will be used for.

Solid Conductors

A copper rod provides a solid conductor for a wire. A solid conductor offers lower cost and is easily formed to any shape desired. A solid conductor does not have much flexibility and may break if flexed too much in one place. For these reasons, a solid conductor is best suited for use in a fixed or permanent installation.

Stranded Conductors

By combining several strands together a stranded conductor can be formed. A stranded conductor is easy to pull, flexible, and is less likely to break if subjected to frequent bending. The finer the strands and the more strands used to assemble a conductor, the more flexible the conductor becomes. Therefore, stranded cable is ideal for installations where frequent movement of the cable is required.

Bare and Tinned Conductors

Conductors can be either tinned or plain bare copper. Most electronic connectors today are designed to be used with bare copper. In cables that are terminated with soldered connectors, tinned plated conductors can help in soldering the wire to the connector.

Copper-Covered Steel

This type of conductor uses a steel conductor covered with copper. This type of conductor make-up is used for RF applications that require a cable to withstand added tension. The steel provides added strength, and the copper provides good conductivity for higher RF signals. This type of conductor is not good for low frequency transmission.

Conductor Size (AWG)

Conductors are measured in size/diameter through a gauging system. There is no industry standard. However, the American Wire Gauge (AWG) system has been generally accepted as the standard in the wire and cable industry. The sizes are derived through a logical, geometric progression. The smaller the number, the larger the wire, and likewise, the larger the number the smaller the wire. The AWG system is important because it provides a standard reference for comparison of various conductor materials based technically on the cross-sectional area of the wire.

Example: A #22 AWG wire is smaller than a #18 AWG wire.
A #14 AWG wire is larger than a #24 AWG wire.

Dielectric

Insulation is a highly resistive material that is applied to the conductor to resist the flow of electric current to other conductors and provide protection to the conductor. There are many types of insulation materials used and each has its advantages and limitations. The type of insulation selected is based upon the application of the cable. Insulation is also referred to as the dielectric of a cable.

Dielectric Strength

This is the amount of voltage that insulation can withstand before it "breaks down". The material type and thickness determines the insulation's dielectric strength. The application and environment the cable will be used will determine the dielectric strength required.

Protection

Insulation also must provide flame retardancy in case of fire, provide resistance to abrasion and provide protection from electrical shock.

Dielectric Categories

Electrical insulations can be divided into four categories.: Thermoplastics, Thermosets, Fluoropolymers, and Elastomers. Insulations are normally applied by an extrusion process. The extrusion process forces pre-heated plastic through dies which forms a continuous covering over the conductor. This is usually called the primary insulation.

Thermoplastics

Thermoplastic compounds are compounds that are softened by mechanical pressure and applied heat, and maintain their altered shape when cooled and/or the mechanical force is removed.

Polyvinylchloride (PVC)

This is probably the most widely used insulation for low voltage insulation. This compound is offered in a variety of formulations. Through different manufacturing processes, PVC can be made to resist sunlight, ozone, flames, oil, and most solvents. PVC insulation is fairly consistent, allowing for bright colors, and is very flexible and easy to strip.

Polyethylene

This compound offers excellent electrical properties such as low capacitance and low loss of a signal. Polyethylene is lightweight, water-resistant, and fairly chemical resistant. Polyethylene offers good abrasion resistance and is somewhat harder to strip than PVC.

Polypropylene

This material is similar to polyethylene as to electrical properties providing low loss properties with less material. Polypropylene also provides excellent mechanical properties and is very abrasion resistant although stiffer than Polyethylene. Of the four compounds listed in this category, polypropylene is the most difficult to strip.

Copolene

Copolene is a West Penn Wire Trademark. This insulation offers a low dielectric constant enabling low capacitance. Excellent electrical properties allow high speed, low distortion signal transmission.

Technical Reference

Fluoropolymers

These compounds are commonly used for high temperature applications and areas such as plenums that require flame retardancy and low smoke characteristics. The NEC mandates the use of these types of materials in ducts, plenums, and other space used for environmental air. Using these types of compounds will allow for reduced cost in installation because there is no need to install conduit.

Halar®

A premium insulation with excellent electrical and mechanical properties. This compound offers a stable low dielectric constant over a wide range of frequencies. It is also chemical resistant, abrasion and impact resistant, and can withstand high temperatures.

Teflon®

A premium insulation with excellent electrical and mechanical properties. This compound is widely used as a solid or foamed dielectric, allowing for an extremely low loss cable. This compound can withstand high temperatures and has low flame and smoke characteristics.

Copolymer

Polyvinylidene Fluoride (PVDF). This compound has rather poor electrical properties. However, this compound has a very high temperature rating and excellent mechanical properties such as cut-through resistance, corrosion resistance, abrasion resistance, and high tensile strength.

Elastomers

This is a group of compounds that are "rubber-like" in appearance. They can be compressed or even stressed and will snap back to their original shape with the release of tension.

TPE - Thermo-Plastic Elastomer

Shielding

There are basically three types of shielding techniques: foil shielding, braid shielding, and combination shielding. Shielding is utilized to prevent radiation and signal loss of high frequencies used in electronic circuits and to reduce EMI/RFI interference. However, shielding tends to increase the overall capacitance of the cable.

Foil Shield

Foil shields are usually made of a thin layer of aluminum bonded to a polyester film. A foil shield allows for 100% coverage if applied with an appropriate overlap construction. A drain wire is used in conjunction with the foil shield to connect the shield to ground. This permits extraneous signals to be "drained off" to ground. It is very good in reducing Radio Frequency (RF) interference, but does not perform as well in blocking Electro Magnetic Interference (EMI). Foil shields do provide easy termination and low cost protection, although fragile (low tensile strength and impact resistance).

BiFoil

This type of foil shield allows for added protection by increasing the metallic coverage without adding increased thickness to the diameter of the cable. Mainly used in coaxial cable, the BiFoil shield is an aluminum-polyester-aluminum tape with 100% coverage.

Bonded BiFoil

This type of foil shield has the same aluminum-polyester-aluminum construction as the BiFoil shield, but is also bonded to the dielectric with adhesive. This allows for better shielding capabilities as well as providing excellent ease of stripping because the foil does not pull away from the dielectric.

Braid Shield

Braided shields can be constructed in various coverages, 95-98% being about the highest coverage available with this type of shielding. The material can be bare copper, tinned copper, or aluminum. Depending on the amount of coverage, braid shields reduce EMI interference well, but are not as reliable in the RF range. Braid shields also allow for a much lower shield D.C. resistance than foil

Basic Cable Construction

Combination Shielding

This technique offers the best of both types of shielding. First, a foil shield is applied around the primary conductors and then a braided shield is placed on top of the foil shield. This allows for greater coverage in blocking both EMI and RFI signals while allowing for a low D.C. resistance in the shield. There are also various versions of this basic technique such as triaxial and quad shielding.

Foil/Braid

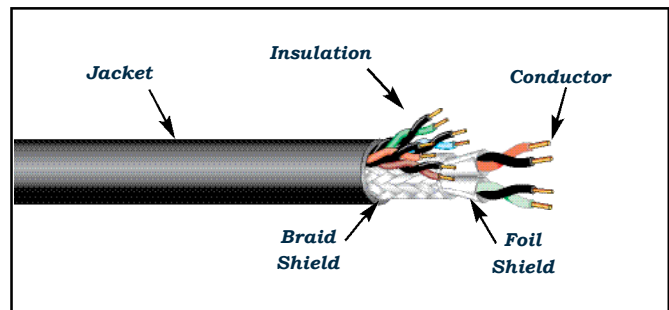
This is the most common type of combination shielding. The aluminum foil is wrapped around the cabled or twisted primaries and then a braided shield is applied over top of the aluminum foil. The metallic side of the foil shield is usually in contact with the braid. The braid is then used for shielding as well as ground termination eliminating the need for a drain wire.

Triaxial - A Braid-Separator-Braid combination shield construction.

Quad - A Foil-Braid-Foil-Braid combination shield construction. This provides for maximum shielding against EMI/RFI interference.

Jackets

The cable jacket is for strength, integrity, and overall protection of the primaries and/or shield inside the jacket. There are a variety of jacketing materials that are used in cable construction. Standard compounds and special variations of these compounds can be used in making the jacket. Selecting a cable with the proper jacket for the environment it will be installed in is an important consideration. Environmental parameters that should be considered include temperature variations, chemical reactivity, sunlight resistance, mechanical and abrasion impact. Jackets are usually made up of the same material as insulation used on primaries. To learn more about the various compound properties, please refer to the Insulation Section.



Technical Reference

Coaxial Cable Construction

This section provides an introduction to understanding coaxial cable construction. These fundamentals will allow you to understand the basic materials that are used in the construction of a coaxial cable. A coax cable type is determined by the specifications of the system installed, basic electronic principles, environment, and regulatory agencies. These various criteria dictate the type of conductor, gauge of wire, type of insulation, shielding, and type of jacket. A basic understanding of coaxial cable construction should be helpful in selecting and installing the proper cable for a particular system.

Conductors

Conductors for coaxial cables can vary greatly from stranded conductors for maximum flexibility to copper covered steel which provides a stronger cable that will withstand a greater physical strain than copper. The American Society For Testing and Materials (ASTM) standards are followed for all of West Penn Wire conductor materials. The ASTM Standard defines standard requirements such as tensile strength, elongation, resistivity, dimensions, permissible variations, finish, inspection and testing.

Conductor Material

There are several types of material that conduct electricity well (aluminum, nickel, gold, silver). However, copper is the most popular due to its excellent conductivity compared to other material cost. West Penn Wire uses a variety of conductors in our cable. Material used can be bare copper, tinned copper, and copper covered steel. The conductor can consist of solid or stranded construction. The type of conductor selected is determined by the application the cable will be used for.

Solid Conductors

A copper rod provides a solid conductor for a wire. A solid conductor offers lower cost and is easily formed to any shape desired. A solid conductor does not have much flexibility and may break if flexed too much in one place. For these reasons, a solid conductor is best suited for use in a fixed or permanent installation.

Stranded Conductors

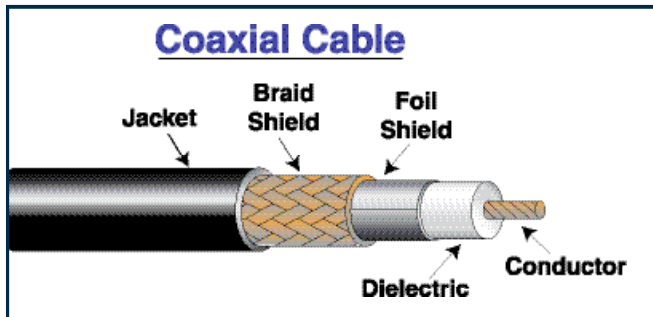
By combining several strands together, a stranded conductor can be formed. A stranded conductor is easy to pull, is flexible and is less likely to break if subjected to frequent bending. The finer the strands and the more strands used to assemble a conductor the more flexible the conductor becomes. Therefore, stranded cable is ideal for installations where frequent movement of the cable is required.

Bare and Tinned Conductors

Conductors can be either tinned or plain bare copper. Most electronic connectors today are designed to be used with bare copper. In cables that are terminated with soldered connectors, tinned plated conductors can help in soldering the wire to the connector.

Copper-Covered Steel

This type of conductor uses a steel conductor covered with copper. This type of conductor make-up is used for RF applications that require a cable to withstand added tension. The steel provides added strength and the copper provides good conductivity for higher RF signals such as CATV. This type of conductor is not good for low frequency transmission, such as CCTV.



Dielectric

A coaxial cables dielectric is a highly resistive material that is applied to the conductor to resist the flow of electric current to the shield. It also sets up a cables electrical characteristics. There are several types of insulation materials and constructions used and each has its advantages and limitations. The type of insulation selected is based upon the application of the cable. Insulation is also referred to as the dielectric of a cable.

Solid Dielectric Construction

A solid dielectric construction uses a process of extruding a solid material over the center conductor of a coaxial cable. It provides good electricals, added cable strength and uniformity of termination. However, a solid dielectric provides poorer electricals and less velocity of propagation than cellular designs.

Foamed (Cellular) Dielectric Construction

A cellular dielectric construction uses a process of extruding a cellular material over the center conductor of a coaxial cable. This improves the dielectric constant of the dielectric material which improves the electricals of a coaxial cable. The dielectric material exhibits a lower capacitance, which in turn provides lower loss. This dielectric material also provides a higher velocity of propagation. With the advent of the "Gas Injection" process, cable manufacturers are able to improve their cellular design and provide a lower loss cable with higher velocity of propagation values.

Dielectric Materials

Polyethylene

This compound offers excellent electrical properties providing for low loss of a signal. However, it can only be used on a non-plenum rated cable because the compound has a poor flame and smoke retardancy.

Teflon® (FEP)

A premium insulation that provides excellent electrical and mechanical properties. This compound is widely used as a dielectric for coaxial cables providing low loss and the ability to withstand high temperatures and also having low flame and smoke characteristics.

Technical Reference

Coaxial Cable Construction

Shielding

There are basically three types of shielding techniques:

1. Foil Shielding, 2. Braid Shielding, 3. Combination Shielding

Shielding is utilized to prevent radiation and signal loss of high frequencies used in electronic circuits and to reduce EMI/RFI interference. However, shielding tends to increase the overall capacitance of the cable.

Foil Shield

Foil shields are usually made of a thin layer of aluminum bonded to a polyester film. A foil shield allows for 100% coverage if applied with an appropriate overlap construction. It is very good in reducing Radio Frequency (RF) interference, but does not perform as well in blocking Electro Magnetic Interference (EMI). Foil shields do provide easy termination and low cost protection, although they are fragile (low tensile strength and impact resistance).

BiFoil

This type of foil shield allows for added protection by increasing the metallic coverage without adding increased thickness to the diameter of the cable. Mainly used in coaxial cables, the BiFoil shield is an aluminum-polyester-aluminum tape with 100% coverage.

Bonded BiFoil

This type of foil shield has the same aluminum-polyester-aluminum construction as the BiFoil shield, but is also bonded to the dielectric with adhesive. This allows for better shielding capabilities and also provides excellent ease of stripping and termination because the foil does not pull away from the dielectric.

Braid Shield

Braided shields can be constructed in various coverages (95% - 98% being about the highest coverage available with this type of shielding). The material can be bare copper, tinned copper, or aluminum. Depending on the amount of coverage, braid shields reduce EMI interference well, but are not as effective in the RF range. Copper braided shields also allow for a much lower shield D.C. resistance than foil shields.

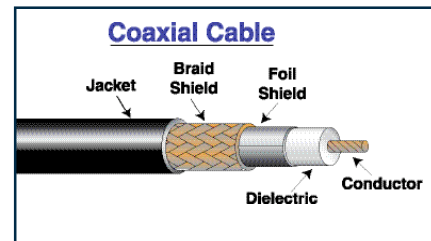
Combination Shielding

This technique offers the best of both types of shielding. First a foil shield is applied around the dielectric and then a braided shield is placed on top of the foil shield. This allows for greater coverage in blocking both EMI and RFI signals. There are also several versions of this basic technique such as triaxial, tri-shielding and quad shielding.

Foil/Braid

This is the most common type of combination shielding. The aluminum foil is placed around the dielectric and then a braided shield is applied over top the aluminum foil. The metallic side of the foil shield is usually in contact with the braid. The braid is then used for shielding as well as ground termination eliminating the need for a drain wire. There are various types of shieldings offered on West Penn Wire coaxial cable:

1. Quad Shield - A Foil-Braid-Foil-Braid combination shield construction. This provides maximum shielding against EMI/RFI interference.
2. Tri-Shield - A Foil-Braid-Foil combination
3. Triaxial - A Braid-Separator-Braid combination shield construction.



Jackets

The cable jacket is for strength, integrity, and overall protection of the other components inside the jacket. There are a variety of jacketing materials that are used in cable construction. Standard compounds and special variations of these compounds can be used in making the jacket. The selection of cable with the proper jacket and conditions of the environment the cable will be installed in are important considerations. Environmental parameters that should be considered include temperature variations, chemical reactance, sunlight resistance, mechanical and abrasion impact. Jackets are sometimes made up of the same material as insulation used on a dielectric. To learn more about various compound properties, please refer to the Dielectric Section.

Technical Reference

Fiber Elements

Fiber optic cable provides the most advanced communication media available today. An increasing amount of fiber will be installed in the future as we find more and more uses for this technology. Fiber optic cable can support voice, data, video, and other types of transmission, and offers many advantages over standard copper circuits which we will discuss later in this section.

Core

This is the very center of the cable and is the light guiding area used for light transmission. The size of the core will determine the amount of light to be transmitted into the fiber. The larger the core, the greater the amount of light that will be transmitted.

Cladding

The cladding surrounds the core glass and serves to refract the light back into the core. The cladding has a different index of refraction than the core so that the lightwaves are re-directed back into the core allowing continued light transmission through the fiber.

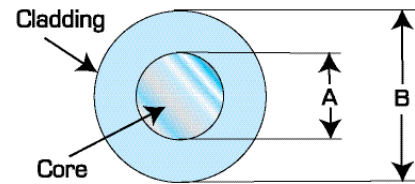
Coating

Several coatings of acrylate are usually applied to the fiber to provide tensile strength and protection to the glass fiber core.

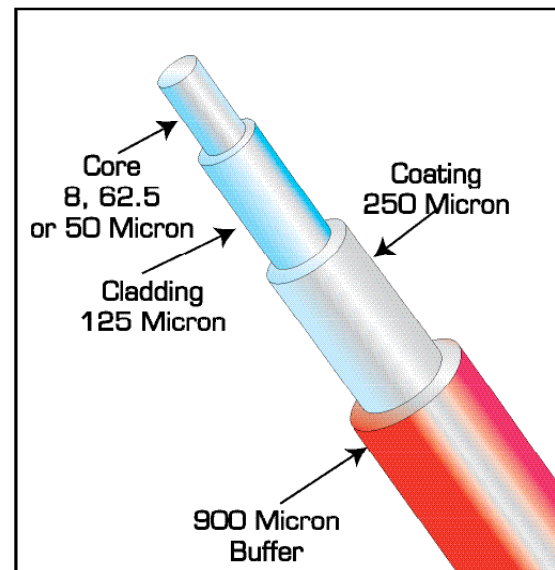
Jacket

The cable jacket works along with the aramid fibers to provide strength, integrity, and overall protection of the fiber member. There are a variety of jacketing materials that are used in fiber optic cable construction. Standard compounds and special variations of these compounds can be used in making the jacket. The jacket should be appropriate for the environmental conditions that the fiber optic cable will be subjected to. Environmental parameters that should be considered include temperature variations, chemical reactance, sunlight resistance, mechanical and abrasion resistance.

Fiber Optic Cable Construction



Buffered Fiber



Fiber Optic Cable Types

Fiber Optic Size - This is measured by comparing the core size to the cladding size. This is expressed by the core diameter and then the cladding with coating diameter.

Example: 62.5/125., 62.5 being the core diameter and 125 being the cladding with coating diameter.

Fiber Optic Modes - There are basically two types or modes of fiber optic cable, single-mode and multimode.

Single-Mode - The core on single-mode is about 8-10 micron. This small core size allows only one mode of light to travel within the core at a time. The higher the bandwidth, the more information carrying capacity the cable has. This type of cable is good for long distances, and is often used by telephone companies for long transmissions.



Multimode - The core on multimode is about 50 - 100 micron. A larger core allows many light pulses or modes to travel through the core simultaneously. Mode overlap can occur over extremely longer distances and may cause bit errors. Multimode is best used for lengths up to 2 kilometers.

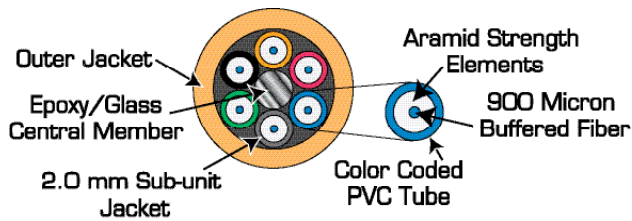


Technical Reference

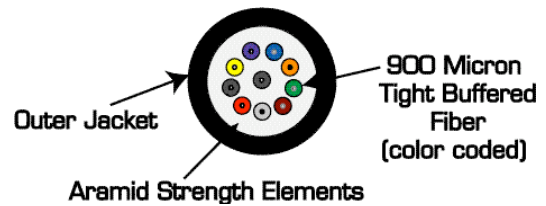
Fiber Optic Cable Construction

Fiber Optic Cable Used for Indoor Installations

Breakout Cable

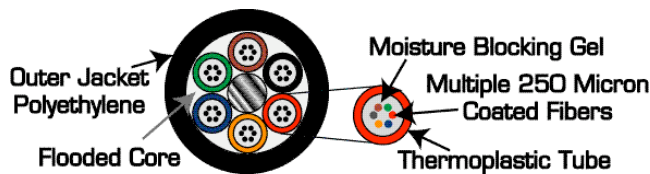


Distribution Cable

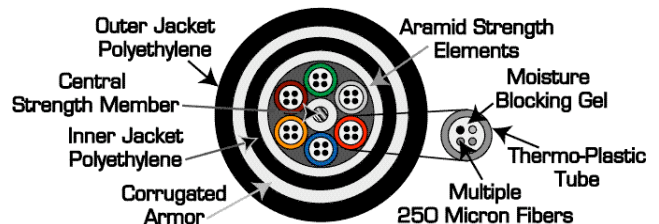


Fiber Optic Cable Used for Outdoor Installations

Loose-Tube Cable



Armored Loose-Tube Cable



Fiber Optic Cable Benefits

High Bandwidth - The higher the bandwidth, the greater the information carrying capacity. A higher bandwidth allows for higher data rates, more users and longer distances.

Easy Upgrades - Fiber optic cable allows for easy future upgrades. Because a variety of transmissions can use fiber optics, it is only necessary to change the electronics. The cable can stay in place. There is no need to pull new cable in the future.

Low Attenuation - This is a reduction of signal strength or loss of light power over the length of the fiber. Fiber optic cable usually has low attenuation characteristics which allow signals to travel over longer distances without reamplification. However, attenuation can be affected by extrinsic (environmental and physical bends), intrinsic (absorption and scattering) and wavelength. The longer the wavelength, the lower the attenuation.

EMI/RFI Immunity - Since fiber optic cables transmit light instead of electrical current, immunity to electromagnetic and radio frequency interference provides better signal quality, ensuring low bit error rates and/or low noise on the system.

Security - Again, since there is no electrical signal, fiber optic transmission is almost impossible to tap into without being detected.

Lightweight - Fiber optic cable is smaller and lighter than copper cable allowing for easier installation, especially when conduit and/or raceway space is at a premium.

Technical Reference

Understanding the National Electrical Code

The National Electrical Code (NEC) is a set of guidelines written to govern the installation of wiring and equipment in commercial buildings and residential areas. These guidelines were developed to ensure the safety of humans as well as property against fires and electrical hazards. Understanding the National Electrical Code is important from the cable manufacturer engineer and distributor, to the designer and installer. Anyone involved in specifying cable to installation of cable should be aware of the basics of the code.

In 1987, the National Electrical Code introduced some major changes that had a major impact on the wire and cable industry. The code now has listing requirements for communication and power-limited circuit cable. These requirements developed fire resistance levels for cable. The code covers initiation of fire by electronic cable as well as flame spread characteristics of the cable.

Code Organization

The NEC code book is made up of nine chapters, with each chapter divided into separate articles pertaining to specific subjects. There are about five articles that pertain to communication and power-limited cable. Each article describes wire and cable construction, material use, cable markings, installation environments and applications.

Article Categories

There are four articles that cover communication, power-limited and CATV wiring. There is another category that deals strictly with optical fiber. The following is a list of those articles and the applications or systems they cover:

Article 725 - Class 1, Class 2, Class 3, Remote-control, Signaling and Power-Limited circuits

Article 760 - Fire Protective Signaling Systems

Article 770 - Fiber Optic Systems

Article 800 - Communication Circuits

Article 820 - Community Antenna Television

Article Overviews

The NEC code can be somewhat confusing to the novice who has not studied the code in depth. In most cases, within an article, a listing will allow for a higher listed cable to be substituted for lower listed cable. Or some listings from one article may be substituted for another article listing with possible restrictions. This section will briefly cover the basis of the code to try to make things clearer for you. You should consult the NEC book for exact specifications, wording, and accuracy of the code. This is not in any way an exact excerpt from the code.

Article 725

Article 725 covers Class 1, Class 2, and Class 3 remote control and signaling cables as well as power-limited tray cable. Power-limited tray cable can be used as a Class 3 or Class 2 cable. Cable listed multi-purpose, communications, or power-limited fire protective can be used for Class 2 and Class 3 applications. A Class 3 listed cable can be used as a Class 2 cable.

Article 760

Article 760 covers power-limited fire protective cable. Cable listed as power-limited fire protective cable can also be used as Class 2 and Class 3 cable. Cable listed as communications and Class 3 can be used as power-limited fire protective cable with restrictions to conductor material and type, gauge size and number of conductors.

Article 770

Article 770 covers fiber optic cable. This article covers three general types: non-conductive, conductive, and composite. Non-conductive type refers to cable containing no metallic members and no other electrically conductive materials. Conductive type refers to cable containing non-current carrying conductive members such as metallic strength members, etc. Composite type refers to cable containing optical fibers and current carrying electrical conductors. Composite types are classified according to the type of electrical circuit that the metallic conductor is designed for.

Article 800

Article 800 covers multi-purpose and communication cable. Multi-purpose cable is the highest listing for a cable and can be used for communication, Class 2, Class 3, and power-limited fire protective cable. Communication cable can be used for Class 2 and Class 3 cable and also as a power-limited fire protective cable with restrictions.

Article 820

Article 820 covers community antenna television and RF cable. CATV cable may be substituted with multi-purpose or communication listed coaxial cable.

Designation and Environmental Areas

Not only does listing by circuit types have to be adhered to, but installation in various environments have to also be considered. The NEC has designated four categories for various environments. These will be listed from the highest to the lowest listing. A higher listing can be used as a substitute for a lower listing.

Plenum - This listing is suitable for use in ducts, plenums, and other space used for environmental air without conduit and has adequate fire-resistant and low-smoke producing characteristics. It can also be used for applications below.

Riser - This listing is suitable for use in a vertical run, in a shaft or from floor to floor, and has fire-resistant characteristics capable of preventing the carrying of fire from floor to floor. It can also be used for applications below.

General Purpose - This listing is suitable for general-purpose use, with the exception of risers, ducts, plenums, and other space used for environmental air, and is resistant to the spread of fire. It can also be used for all applications below.

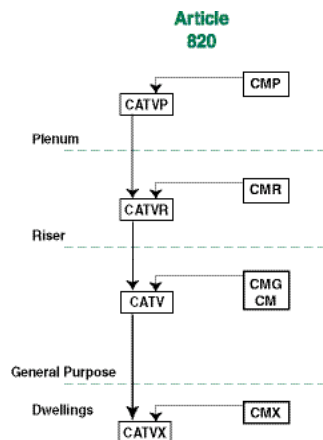
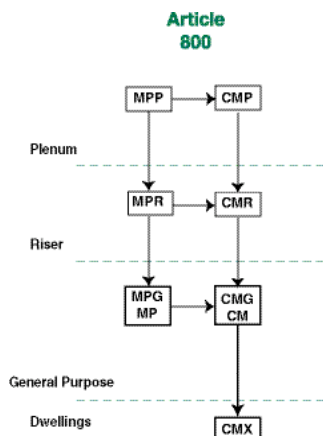
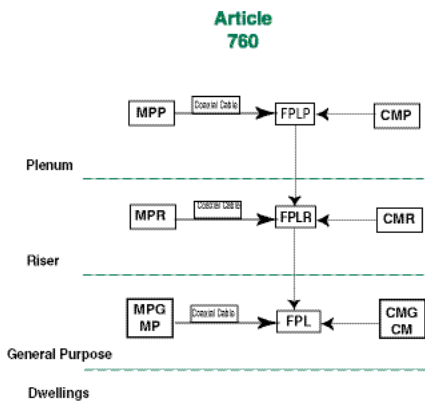
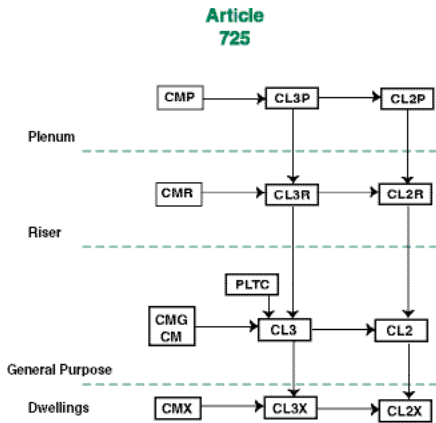
Restricted Applications - This listing is for limited use and is suitable for use in dwellings and for use in raceways and is flame retardant. Restricted use is limited to non-concealed spaces of 10 feet or less, fully enclosed in conduit or raceway, or cable with diameters less than .25" for a residential dwelling.

Technical Reference

Understanding the National Electrical Code

National Electrical Code Substitution Chart

The following chart explains the NEC cable hierarchy and will give you a "picture" view of how this all fits together. The chart starts with the higher listed cable at the top descending to the lower listed cable. Following the arrows will allow you to find what listing can be substituted for others. Also note restrictions in which case you will have to review the NEC code in order to see if your cable is applicable.



Final Considerations

The National Electrical Code is widely accepted as the suggested regulations governing the proper installation of wire and cable in the United States. The code is revised every three years to keep safety in the forefront in wire and cable manufacturing and installation. Even though the code is generally accepted, each state, county, city and municipality has the option to adopt all of the code, part of the code, or develop one of its own. The local inspectors have final authority of your installation. Therefore, the NEC is a good reference when questions arise about the proper techniques for a particular installation, but local authorities should be contacted for verification.

When choosing cable for your installation there are four guidelines to follow to keep problems to a minimum:

1. The application and environment determines which type of cable you can use and what rating it should have. Make sure the cable you're installing meets the proper ratings for your application.
2. If you will be substituting a cable with another, you must have a cable that is rated higher than what the code calls for. Check with your local inspector as to what is allowed in your local area.
3. The NEC code is a general guideline that can be adopted in whole or in part. Your local state, county, city, or municipal approved code is what you must follow. Contact your local authorities for verification of the code in your area.
4. The local inspector or fire marshal has the final authority to approve or disapprove any installation of cable based on the National Electric Code or on the local code.

If you remember these four guidelines, you should have fewer complications and headaches when installing cable in your area. Remember to always work closely with your local authorities.

Technical Reference

Calculating Conduit Capacity

One Cable Type in Conduit

The following information is to provide you with a quick and easy reference for conduit fill requirements. This information is to be used as a general guideline. Each installation has different restrictions for installation environments and/or local codes to follow.

The Conduit Capacity Chart provided on the following page is for applications when only one type of cable is to be used in a conduit. For example, if you know the diameter of the cable you will be installing, use the cable O.D. column, and find the exact or next largest diameter cable O.D.. Follow this row over to the number of cables you need to install in a conduit. Then follow this column to the top of the chart and read the conduit size required for the number of cables you need to install.

Multiple Types of Cable in One Conduit

If you will be mixing various cable diameters in a conduit, then this overall chart does not apply. You will have to use the following guidelines to calculate the conduit fill requirements.

To determine the conduit size required for a particular installation of cable follow these steps:

1. Square the O.D. of each cable and total the results.
2. Multiply the total by .7854*. This is the total area of the cables in square inches.
3. From the Permissible Area row on the Conduit Capacity Chart shown on the following page, select the conduit size with an area equal to or greater than the total area you calculated.
 - * See Important Notes and Installation Suggestions
 - ** Permissible Area to be occupied (sq. in.) is based on the NEC standard of 40% fill, which applies to three or more non-lead covered cable installed in the same conduit.

Important Notes and Installation Suggestions

• A single cable is permitted to occupy 53% and two cables are limited to 31% conduit fill. For a single cable use .5927 in step 2, for two cables use 1.1034, and three or more cables use .7854.

• This chart is based on the maximum number of cable permitted in conduit under the National Electrical Code, and is calculated on the area of the cable with 40% of the conduit filled. For conduit runs of 50 to 100 feet, the installed number should be reduced by 15%, or use the next larger size conduit. If more than two 90 degree bends are to be used in the conduit run, or if the run is to be over 100 feet in length, insert a pull box.

• An anti-friction agent is recommended in pulling operations.

*CAUTION: Select an anti-friction agent which is suitable for the cable jacket material. The electronic characteristics of unjacketed cable may change due to the application of anti-friction agents.

* **COLD ENVIRONMENT PRECAUTION:** Due to the nature of PVC compounds to become non-pliable when stored or handled in ambient temperatures of 32 degrees F or less, we recommend the following:

"Prior to installation, condition the cable for at least 24 hours at room temperature to provide the best flex properties for ease of installation."

- Permissible area chart does not apply to metallic and non-metallic surface raceways; consult the NEC for recommendations.

THE NATIONAL ELECTRICAL CODE FORBIDS THE INSTALLATION OF COMMUNICATION CABLE IN THE SAME CONDUIT AS POWER CABLE.

Pulling Tensions

Under the stress of approximately 15,000 lbs./sq. in. annealed copper will begin to permanently stretch. The table below lists the absolute maximum recommended pulling tensions for conductor sizes. For multiple conductor cable, multiply the appropriate value by the total number of conductors. These pulling tensions must be equally distributed among the conductors.

**THESE LIMITS MUST NEVER BE EXCEEDED EVEN MOMENTARILY!
DON'T JERK THE CABLE!**

The electronic characteristics of a cable may change due to excessive tension and crushing.

Gauge	Max. Pulling Tension
24 AWG	4 lbs
22 AWG	7 lbs
20 AWG	12 lbs
18 AWG	19 lbs
16 AWG	30 lbs
14 AWG	48 lbs
12 AWG	77 lbs

Technical Reference

Conduit Capacity Chart

Conduit Size		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
I.D. Inches		.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026
Permissible Area*		0.12	0.21	0.34	0.60	0.82	1.34	1.92	2.95	3.96	5.09
Cable O.D. Inch	Cable Area sq. Inch										
.100	.00785	15	27	44	76	103	171	298	450	588	751
.125	.01227	10	17	28	48	66	109	191	288	376	481
.150	.01767	7	12	19	34	46	76	132	200	261	334
.175	.02405	5	9	14	25	34	56	97	147	192	245
.200	.03142	4	6	11	19	26	42	74	112	147	188
.225	.03976	3	5	8	15	20	33	59	89	116	148
.250	.04909	2	4	7	12	16	27	47	72	94	120
.275	.0594	1	3	6	10	13	22	39	59	77	99
.300	.07069	1	3	5	8	11	19	33	50	65	83
.325	.08296	1	2	4	7	10	16	28	42	55	71
.350	.09621	1	1	3	6	8	14	24	36	48	61
.375	.11045	1	1	3	5	7	12	21	32	42	53
.400	.12566	1	1	2	4	6	10	18	28	36	47
.425	.14186	1	1	2	4	5	9	16	25	32	41
.450	.15904	1	1	1	3	5	8	14	22	29	37
.475	.17721	1	1	1	3	4	7	13	20	26	33
.500	.19635	1	1	1	3	4	7	12	18	23	30
.525	.21648	0	1	1	2	3	6	11	16	21	27
.550	.23758	0	1	1	2	3	5	10	15	19	25
.575	.25967	0	1	1	1	3	5	9	13	17	22
.600	.28274	0	1	1	1	3	4	8	12	16	21
.625	.3068	0	1	1	1	2	4	7	11	15	19
.650	.33183	0	1	1	1	2	4	7	10	14	17
.675	.35785	0	0	1	1	1	3	6	10	13	16
.700	.38484	0	0	1	1	1	3	6	9	12	15
.725	.41282	0	0	1	1	1	3	5	8	11	14
.750	.44179	0	0	1	1	1	3	5	8	10	13
.775	.47173	0	0	1	1	1	3	5	7	9	12
.800	.50265	0	0	1	1	1	2	4	7	9	11
.825	.53456	0	0	1	1	1	2	4	6	8	11
.850	.56745	0	0	1	1	1	2	4	6	8	10
.875	.60132	0	0	0	1	1	1	4	6	7	10
.900	.63617	0	0	0	1	1	1	3	5	7	9
.925	.67201	0	0	0	1	1	1	3	5	7	9
.950	.70882	0	0	0	1	1	1	3	5	6	8
.975	.74662	0	0	0	1	1	1	3	4	6	8
1.00	.7854	0	0	0	1	1	1	3	4	6	7
1.025	.825	0	0	0	0	0	1	3	4	6	7
1.05	.866	0	0	0	0	0	1	2	3	4	5
1.075	.908	0	0	0	0	0	1	2	3	4	5
1.100	.950	0	0	0	0	0	1	2	3	4	5
1.125	.994	0	0	0	0	0	1	1	2	3	5
1.150	1.039	0	0	0	0	0	1	1	2	3	4
1.175	1.084	0	0	0	0	0	1	1	2	3	4
1.20	1.131	0	0	0	0	0	1	1	2	3	4
1.225	1.179	0	0	0	0	0	1	1	2	3	4
1.250	1.227	0	0	0	0	0	1	1	2	3	4
1.275	1.277	0	0	0	0	0	1	1	2	3	3
1.300	1.327	0	0	0	0	0	1	1	2	3	3
1.325	1.379	0	0	0	0	0	0	1	2	3	3
1.350	1.431	0	0	0	0	0	0	1	2	2	3
1.375	1.485	0	0	0	0	0	0	1	1	2	3
1.400	1.539	0	0	0	0	0	0	1	1	2	3
1.425	1.595	0	0	0	0	0	0	1	1	2	3
1.450	1.651	0	0	0	0	0	0	1	1	2	3
1.475	1.709	0	0	0	0	0	0	1	1	2	2
1.500	1.767	0	0	0	0	0	0	1	1	2	2

EXAMPLES:

Example A.

Sample Cable:
227- .269" O.D.

Go down the Cable O.D. inch column. Find the number equal to or greater than the cable O.D. Go across to find the number of cables in the appropriate conduit size.

.269" - Closest .275"
13 in a 1 1/2" Conduit.

Example B.

Three different Cables:

227 - .269" sqd. = .0724

434 - .411" sqd. = .1689

6350 - .275" sqd. = .0756

+

.3169

x .7854

.2489

On the Permissible Area-equal to or greater. The closest area is .034 Use a 1" Conduit

Important Note: This conduit capacity chart is to be used as a general guideline. Because local codes can vary from the NEC. West Penn Wire cannot be held responsible for this information as it pertains to your installation. Proper conduit fill is the sole responsibility of the installer and it is your responsibility to see that your installation will pass local codes.

Technical Reference

Cable Termination Techniques

Cable Termination

There is a variety of termination methods for cable. The termination method utilized depends basically on the system installed, type of cable used and type of connector. Using the proper termination method allows for good mechanical and electrical integrity. No matter what type of termination you will be performing, the most important thing is to use the proper tools and materials for the type of termination. For example, a crimp using pliers will work, but using a crimp tool and the proper die designed for your type of cable and connector is better. Using the proper solder type and the right temperature for solder type connections will ensure a lasting connection. We will review four basic termination techniques. This is just to provide some general guidelines. The termination method may vary somewhat based on system requirements and connector manufacture design methods.

Termination Types

Solder Type

A solder type connection allows for a strong, solid mechanical and electrical connection. Clean the connection well. For electrical circuits you must use a rosin type flux to clean all connections. Do not use acid flux that is commonly used for plumbing installation. The acid based flux will cause corrosion and inherently cause intermittent problems with the electrical signal. The choice of solder is also important. Using a solder standard 60/40 formula will meet the majority of your soldering needs. However, lead-free and high-grade silver solder is available for special applications. Also, use a soldering iron of the proper wattage. If the soldering iron is not hot enough, you may not be able heat the connection enough to get a good solder joint. This may cause what is known as a "cold" solder joint and can cause intermittent problems like opens to occur. However, if the soldering iron is too hot, you can cause damage to the components of the system near the connection. This can also cause the insulation to possibly melt causing the bare primaries to make contact with each other resulting in a short.

Crimp Type

A crimp type connection allows for quick and simple installation while still maintaining a mechanical and electrical connection fairly close to a solder type termination. Solid or stranded wire can be used in this type of termination.

Some of the key points to remember for a good clean connection are as follows:

1. Make sure you use the proper size connector for the type of cable you are using.
2. Make sure all of your cuts and stripping are clean.
3. Avoid nicks as much as possible.
4. Use the proper crimp tool, don't try to improvise with pliers, etc.

The most common crimp method involves two crimps, one on the insulation for a stronger mechanical connection and one on the conductor or shield for a good electrical connection. A crimp tool is designed specifically for this type of termination for the type of connector you are using. This allows for good connections both mechanical and electrical. Using pliers will allow connection. However, it may not be a solid mechanical or electrical connection and can cause the connector to eventually come loose and intermittent problems with the electrical signal can occur.

Insulation Displacement

This type of termination is usually used in punch down blocks, wall connectors, and in the back of patch panels. This type of termination eliminates the need for stripping the conductor insulation. As the conductor is pushed through the clip, the insulation is cut into and the metal clip contact makes contact with the wire.

The best type of wire to use is a solid conductor. If you use a stranded conductor the force of the termination may allow the clip to cut some of the strands. Also, stranded wire will "crush" somewhat which will not allow for a solid connection. However, both types of conductors are used in various systems.

The connection is made by using a punch down tool. Some patch panel manufacturers supply a termination cap that terminates several wires at once without the use of a tool. Some tools will allow use of different bits for use with various terminations. (i.e. 66 block, 110 block, etc.). Just like the crimping type termination, it is important to use the correct bit for the type of termination you are doing.

Direct Connection (Utility Block/ Screw Terminals)

This type of termination has several names. Utility block, barrier strip, or screw terminals are just a few. This type of termination can use either solid or stranded conductors. It allows for easy termination as well as quick changing of wire in the future. The main point to remember about a screw connection is to strip back the insulation only to the amount of conductor that will wrap around the screw and to place the wire in the same direction as the screw turns when tightening. This will "pull" the wire in tighter as the screw tightens. If you wrap the wire around the screw opposing the tightening rotation of the screw, the wire will be pulled outward and will become unwrapped around the screw.

Splicing

It is recommended to avoid splicing whenever possible, however, when splicing of cables becomes necessary, there are several methods to do this. Splicing can be as simple as twisting conductors together, soldering and then taping. Splicing can also be more elaborate by using a variety of inline connectors and adapters. The method used is based on the type of system used, the electrical signal characteristics, and type of cable used. A simple audio or intercom system can be spliced by just connecting the conductor together with the twist method. However, a CCTV or high speed data system will require inline connectors and adapters due to the construction of the cable as well as to maintain proper impedance, resistance, and capacitance characteristics for the cable run. If the location of the splice is outdoor or in underground environments, it is recommended that a waterproof splice kit be utilized.

Technical Reference

Connector Termination/Basic Guidelines

Cable Termination

There are a variety of termination methods for cables. The termination method utilized depends basically on the system installed, type of cable used, and type of connector. Using the proper termination method allows for good mechanical and electrical integrity. No matter what type of termination you will be performing, the most important thing to remember is to use the proper tools and materials for your type of termination. For example, a crimp using pliers will work, but using a crimp tool and the proper die designed for your type of cable and connector is better. Using the proper solder type and the right temperature for solder type connections will ensure a lasting connection. We will review some basic termination techniques. This is just to provide some general guidelines. The termination method may vary somewhat based on system requirements and connector manufacturer design methods.

Crimp Type Termination

A crimp type connection allows for quick and simple installation while still maintaining a mechanical and electrical connection fairly close to a solder type termination. Solid or stranded wire can be used in this type of termination.

Some of the key points to remember for a good clean connection are as follows: make sure to use the proper size connector for the type of cable you are using. Make sure all your cuts and stripping are clean. Avoid nicks as much as possible. Use the proper crimp tool; don't try to improvise with pliers, etc.

The most common crimp method involves two crimps. One is on the insulation for a stronger mechanical connection and one is on the conductor or shield for a good electrical connection. A crimp tool is designed specifically for this type of termination, for the type of connector you are using. This allows for good connections, both mechanical and electrical. Using pliers will allow a connection; however, it may not be a solid mechanical or electrical connection, and can cause the connector to eventually come loose, which can cause intermittent problems with the electrical signal.

Splicing

It is recommended to avoid splicing whenever possible. However, when splicing of cables becomes necessary, there are several methods to do this. Splicing can be as simple as twisting conductors together, soldering, and then taping. Splicing can also be more elaborate by using a variety of inline connectors and adapters. The method used is mainly based on the type of system used, the electrical signal characteristics, and type of cable used. A simple audio or intercom system can be spliced by just connecting the conductor together with the twist method. However, a CCTV or high speed data system will require inline connectors and adapters due to the construction of the cable as well as to maintain proper impedance, resistance, and capacitance characteristics for the cable run. If the location of the splice is outdoor or in underground environments, it is recommended that a waterproof splice kit be utilized.

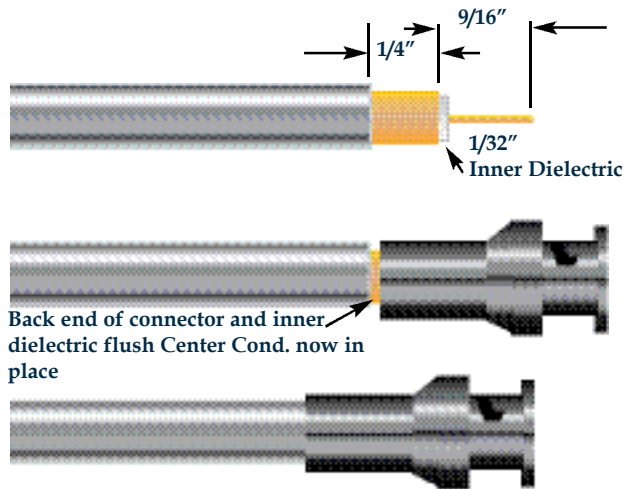
"F" Type Connector



1. Strip 1/2" of the jacket to expose the braid shield.
2. Bend the exposed shield (Braid) back over the outer jacket. Do not disturb the foil shield beneath the braid.
3. Strip core back to expose conductor 1/4".
4. Slide the shank of the "F" connector over the foil shield and under the braid shield. Push the connector onto the cable, until the shoulder of the connector is firmly seated against the braid shield. Crimp connector with proper tool as recommended by your connector manufacturer.

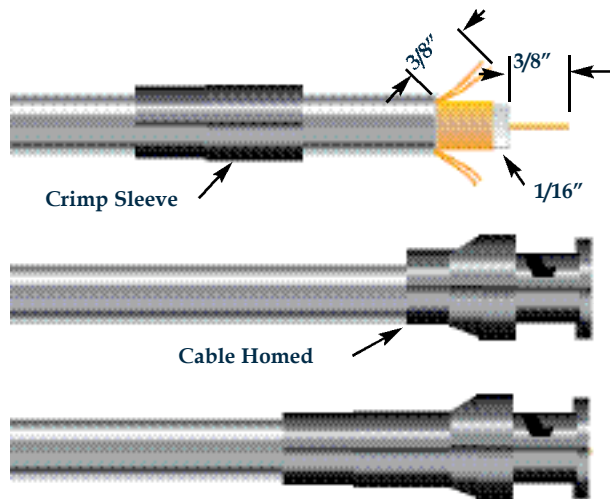
Technical Reference

BNC - Connector Termination



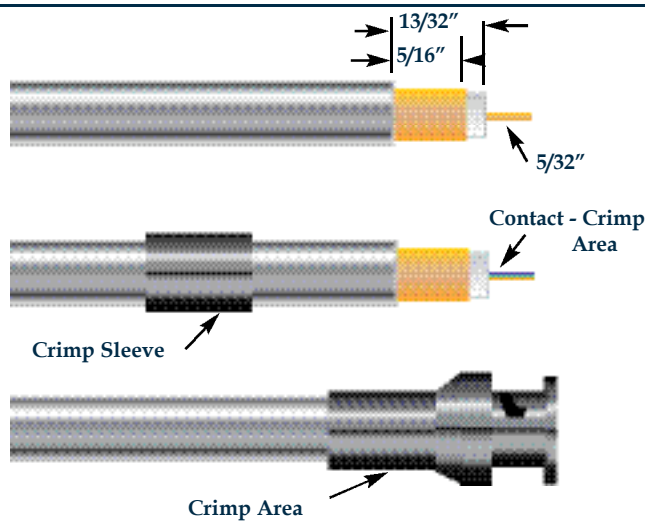
Twist On BNC Connector

1. Trim cable as shown, taking care not to nick the center conductor or outer braid.
2. Twist the outer braid in a clockwise direction in such a manner that at least $1/32$ " of the inner dielectric is bared, and the braid is left flat. (Stray or loose braid can cause shorts).
3. Gently insert the center conductor down into the back end of the connector, feeling it into the guide hole. When the center conductor is not in place approx. $1/8$ " of center conductor will show.
4. Firmly push the cable home as far as possible. Then screw the connector on the cable in a clockwise direction until it stops.



2 Piece BNC Connector

1. Run crimp sleeve down cable.
2. Trim cable as shown. Taking care not to nick the center conductor or outer braid
3. Gently insert the center conductor into the guide hole, in the rear of the connector, and firmly push the cable home.
4. Push crimp sleeve into place. Sandwiching the braid between the connector and sleeve.
5. Crimp the sleeve into place with the proper crimp tool.



3 Piece BNC Connector

1. Trim cable as shown. Taking care not to nick the center conductor or outer braid.
2. Slip crimp sleeve over cable. Place inner conductor into contact, note that the end of the contact and inner dielectric must be butting and square. Crimp with proper crimp tool.
3. Flair outer braid, and gently but firmly push the contact into the connector housing until a gentle snap is felt. Indicating the contact is in place. Slip the crimp sleeve in place, butting the flange against the connector body, and crimp with proper tooling.

Technical Reference

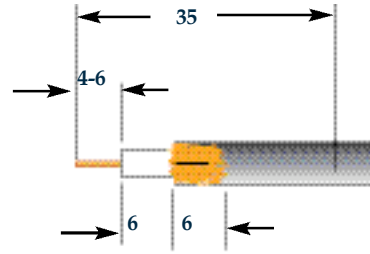
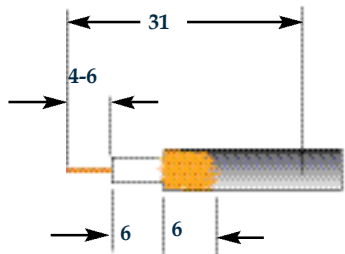
Coaxial Compression- Connector Termination

BNC

RG59/U Plenum RCA
 RG6/U Plenum and RG6/U Quad-shield Plenum BNC
 RG59/U Plenum and RG59/U Quad-shield Plenum BNC
 RG6/U and RG6/U BNC, BNC Right angle, BNC Jack
 RG59/U BNC, BNC Right angle, BNC Jack

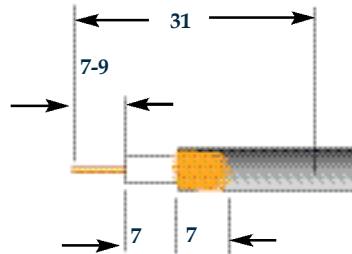
RCA

RG6/U and RG6/U Plenum Quad-shield RCA, RCA Jack
 RG6/U -RG6/U Quad Shield RCA Right angle
 RG6/U Quad Shield RCA Jack
 RG59/U RCA, RCA Right angle, RCA Jack



"F" Type

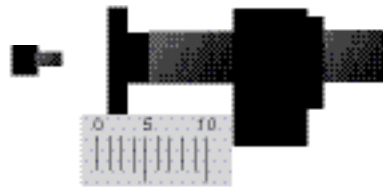
All "F" Type Compression Connectors



NOTE:

Slitting the jacket 3-4 mm will help in seating the connector properly.
 Mark the jacket at 31 or 35 mm to help guide the connector to the appropriate location.

"F" Type



"F" Type compression connectors set the adjustable crimp ferrule to 1.

BNC



BNC Type compression connector set the adjustable crimp ferrule to 6.

RCA



RCA Type compression connectors set the adjustable crimp ferrule to 4.

NOTE:

Adjustments apply only to the SNS Style compression connectors.
 Slight adjustments may be necessary

Connector Cross-Reference

Cable Part No.	Connector Type	Connector Part No.	Crimp Tool	Strip Tool	Cable Part No.	Connector Type	Connector Part No.	Crimp Tool	Strip Tool	
1100	"F"	CN-F11ALX	TL-112	TL-124**	256CRGB2P	Comp. BNC	CN-FS1BNC	TL-SNSA	TL-CSST	
	Comp. "F"	CN-FSNS-11	TL-SNS11	TL-SNS11ST		Comp. RCA	CN-FS1RCA	TL-SNSA	TL-CSST	
1110	"F"	CN-F11ALX	TL-112	TL-124**	25806	1Pc. BNC	CN-BM51-4	--	TL-120	
	Comp. "F"	CN-FSNS-11	TL-SNS11	TL-SNS11ST		2Pc. BNC	CN-BM52-4	TL-101	TL-120**	
1130	"F"	CN-F11ALX	TL-112	TL-124**		3PC. BNC	CN-BM53-4	TL-104	TL-121	
	Comp. "F"	CN-FSNS-11	TL-SNS11	TL-SNS11ST		75Ω 3Pc. BNC	CN-BM73-4	TL-107	TL-121	
1135	"F"	CN-F11ALX	TL-112	TL-124**		Comp. BNC	CN-CSBNC-6	TL-SNSA	TL-CSST	
	Comp. "F"	CN-FSNS-11	TL-SNS11	TL-SNS11ST		Comp. RCA	CN-CSRCA-6	TL-SNSA	TL-CSST	
1150	Triax Female	7703-1	KTH-1000	--		25810	3PC. BNC	CN25810KBNC	TL-115	TL-124
	Triax Male	7705-1	KTH-1000	--	25811	"F"	CN-F11TFE	TL-115	TL-124**	
	Die		KTH-2040	--	25812	3PC. BNC	CN-BM53-25	TL-105	TL-121	
1165	Triax Female	7703-3	KTH-1000	--	25815	1Pc. BNC	CN-BM51-10	--	TL-120	
	Triax Male	7705-3	KTH-1000	--		2Pc. BNC	CN-BM52-10	TL-100	TL-120**	
	Die		KTH-2041	--		3PC. BNC	CN-BM53-30	TL-103	TL-121	
252815	1Pc. BNC	CN-BM51-10	--	TL-120		75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-30	TL-104	TL-121	
	2Pc. BNC	CN-BM52-10	TL-100	TL-120**		Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST	
	3PC. BNC	CN-BM53-30	TL-103	TL-121		Comp. RCA	CN-CSRCA-59	TL-SNSA	TL-CSST	
	75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-30	TL-104	TL-121	25819	"F"	CN-F59TFE/WP	TL-111	TL-120	
	Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST		Comp. "F"	CN-FSNS-2	TL-SNSA	TL-SNSST	
SVHS	CN-SVHS-M	--	--	75Ω 3Pc. BNC		CN-BM74-32 CN-BM73-30	TL-104	TL-121		
75Ω 3Pc. BNC	CN-BM74-18	TL-105	TL-825	Comp. BNC		CN-CSBNC-59	TL-SNSA	TL-CSST		
Comp. BNC	CN-CSBNC-25	TL-SNSA	TL-CSST	Comp. RCA		CN-CSRCA-59	TL-SNSA	TL-CSST		
252825	Comp. RCA	CN-CSRCA-25	TL-SNSA	TL-CSST	25821	"F"	CN-F11TFE	TL-115	TL-124**	
	Comp. RCA	CN-CSRCA-25	TL-SNSA	TL-CSST		25825	75Ω 3Pc. BNC	CN-BM74-18	TL-105	TL-825
	Female BNC	CN-BF74-18	TL-105	TL-825			Comp. BNC	CN-CSBNC-25	TL-SNSA	TL-CSST
	Triax Female	7703-6	KTH-1000	--			Comp. RCA	CN-CSRCA-25	TL-SNSA	TL-CSST
Triax Male	7705-4	KTH-1000	--	Female BNC			CN-BF74-18	TL-105	TL-825	
253815	Die		KTH-2002	--	25841	"F"	CN-F56TFE	TL-111	TL-120	
	253CRGB 255CRGB 252CSVHS	Comp. BNC	CN-FS1BNC	TL-SNSA		TL-CSST	Comp. "F"	CN-CSF-6	TL-SNSA	TL-CSST
		Comp. RCA	CN-FS1RCA	TL-SNSA	TL-CSST	25Q821	"F"	CN-F11TFE	TL-115	TL-124**
256350	"F"	CN-F56TFE	TL-111	TL-120	25841		75Ω 3Pc. BNC	CN-BM74-18	TL-105	TL-825
	Comp. "F"	CN-CSF-6	TL-SNSA	TL-SNSST			Comp. BNC	CN-CSBNC-25	TL-SNSA	TL-CSST
	75Ω 3Pc. BNC	CN-BM73-4	--	TL-121			Comp. RCA	CN-CSRCA-25	TL-SNSA	TL-CSST
	Comp. BNC	CN-CSBNC-6	TL-SNSA	TL-CSST		Female BNC	CN-BF74-18	TL-105	TL-825	
Comp. RCA	CN-CSRCA-6	TL-SNSA	TL-CSST	25841	"F"	CN-F56TFE	TL-111	TL-120		
256350	Comp. RCA	CN-CSRCA-6	TL-SNSA		TL-CSST	Comp. "F"	CN-CSF-6	TL-SNSA	TL-CSST	

Note: ** Center Conductor blade must be removed before using

Connector Cross-Reference

Cable Part No.	Connector Type	Connector Part No.	Crimp Tool	Strip Tool	Cable Part No.	Connector Type	Connector Part No.	Crimp Tool	Strip Tool	
25Q841	"F"	CN-F56ALM	TL-111	TL-120	5994	Triax Female	7703-2	KTH-1000	--	
	Comp. "F"	CN-CSF-6	TL-SNSA	TL-CSST		Triax Male	7705-2	KTH-1000	--	
25843	"F"	CN-F59TFE/W	TL-111	TL-120		Die		KTH-2002	-	
25Q843	"F"	CN-F59ALX	TL-111	TL-120	5CRGB	Comp. BNC	CN-CSBNC-26	TL-SNSA	TL-CSST	
2806B	75Ω 3Pc. BNC	CN-BM73-5	TL-107	TL-121		Comp. RCA	CN-CSRCA-26	TL-SNSA	TL-CSST	
	Comp. BNC	CN-CSBNC-6	TL-SNSA	TL-CSST	6100	"F"	CN-F56ALM	TL-111	TL-120	
	Comp. RCA	CN-CSRCA-6	TL-SNSA	TL-CSST		Comp. "F"	CN-FSNS-6	TL-SNSA	TL-SNSST	
2815B	1Pc. BNC	CN-BM51-2	--	TL-120	6140	"F"	CN-F56ALM	TL-111	TL-120	
	2Pc. BNC	CN-BM52-2	TL-101	TL-120**		Comp. "F"	CN-FSNS-6	TL-SNSA	TL-SNSST	
	3PC. BNC	CN-BM53-2	TL-104	TL-121	6150	"F"	CN-F56ALM	TL-111	TL-120	
	75Ω 3Pc. BNC	CN-BM73-2 CN-BM74-32	TL-104	TL-121		Comp. "F"	CN-FSNS-6	TL-SNSA	TL-SNSST	
	Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST	6300 6310	"F"	CN-F56ALX	TL-111	TL-120	
	2825	SVHS	CN-SVHS-M	--		--	Comp. "F"	CN-FSNSQS-6	TL-SNSA	TL-SNSST
75Ω 3Pc. BNC		CN-BM74-18	TL-105	TL-825		6350	"F"	CN-F56ALM	TL-111	TL-120
Comp. BNC		CN-CSBNC-25	TL-SNSA	TL-CSST			Comp. "F"	CN-FSNS-6	TL-SNSA	TL-SNSST
Comp. RCA		CN-CSRCA-25	TL-SNSA	TL-CSST	75Ω 3Pc. BNC		CN-BM73-5	TL-107	TL-121	
Female BNC		CN-BF74-18	TL-105	TL-825	Comp. BNC		CN-CSBNC-6	TL-SNSA	TL-CSST	
3811	Triax Female	7703-1	KTH-1000	--	Comp. RCA	CN-CSRCA-6	TL-SNSA	TL-CSST		
	Triax Male	7705-1	KTH-1000	--	6500	"F"	CN-F56ALM	TL-111	TL-120	
	Die		KTH-2040	-		Comp. "F"	CN-FSNSQS-6	TL-SNSA	TL-SNSST	
3815	Triax Female	7703-9	KTH-1000	--	6CRGB2P 6CRGB4P	Comp. BNC	CN-CSBNC-26	TL-SNSA	TL-CSST	
	Triax Male	7705-9	KTH-1000	--		Comp. RCA	CN-CSRCA-26	TL-SNSA	TL-CSST	
	Die		KTH-2002	--	806 806R	75Ω 3Pc. BNC	CN-BM73-5	TL-107	TL-121	
4806	1Pc. BNC	CN-BM51-5	--	TL-120		Comp. BNC	CN-CSBNC-6	TL-SNSA	TL-CSST	
	75Ω 3Pc. BNC	CN-BM73-5	TL-107	TL-121		Comp. RCA	CN-CSRCA-6	TL-SNSA	TL-CSST	
4811	3PC. BNC	CN-BM53-26	TL-113	TL-124**	807	3PC. BNC	CN-BM53-8X	TL-119	--	
4815	1Pc. BNC	CN-BM51-2	--	TL-120		"N" Type	CN-NM53-8X	TL-119	--	
	3PC. BNC	CN-BM53-2	TL-104	TL-124	810	3PC. BNC	CN-BM53-8	TL-113	TL-124	
	75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-2	TL-104	TL-121		"N" Type	CN-NM53/110	TL-106	TL-124	
5990	1Pc. BNC	CN-BM51-2	--	TL-120	811	3PC. BNC	CN-BM53-26	TL-113	TL-124	
	3PC. BNC	CN-BM53-2	TL-104	TL-121	812	3PC. BNC	CN-BM53-13	TL-103	TL-121	
	75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-2	TL-104	TL-121	813	1PC. BNC	CN-BM51-1	--	TL-120	
5992	Triax Female	7703-9	KTH-1000	--		3PC. BNC	CN-BM53-13	TL-103	TL-121	
	Triax Male	7705-9	KTH-1000	--	815 815E 815R	1Pc. BNC	CN-BM51-2	--	TL-120	
	Die		KTH-2002	--		2Pc. BNC	CN-BM52-2	TL-101	TL-120**	
	5994	Triax Female	7703-2	KTH-1000		--	3PC. BNC	CN-BM53-2	TL-104	TL-121
		Triax Male	7705-2	KTH-1000		--	75Ω 3Pc. BNC	CN-BM73-2 CN-BM74-32	TL-104	TL-121
5CRGB	Comp. BNC	CN-CSBNC-26	TL-SNSA	TL-CSST		Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST	
	Comp. RCA	CN-CSRCA-26	TL-SNSA	TL-CSST	Comp. RCA	CN-CSRCA-59	TL-SNSA	TL-CSST		

Note: ** Center Conductor blade must be removed before using

Connector Cross-Reference

Cable Part No.	Connector Type	Connector Part No.	Crimp Tool	Strip Tool	Cable Part No.	Connector Type	Connector Part No.	Crimp Tool	Strip Tool
819	"F"	CN-F59ALM	TL-111	TL-120	HD825 HD25825	75Ω 3Pc. BNC	CN-BM74-18	TL-105	TL-825
	Comp. "F"	CN-FSNS-2	TL-SNSA	TL-SNSST		Comp. BNC	CN-CSBNC-25	TL-SNSA	TL-CSST
	75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-2	TL-104	TL-121		Comp. RCA	CN-CSRCA-25	TL-SNSA	TL-CSST
	Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST		Female BNC	CN-BF74-18	TL-105	TL-825
	Comp. RCA	CN-CSRCA-59	TL-SNSA	TL-CSST	HQ841 Q841	"F"	CN-F56ALX	TL-111	TL-120
821	"F"	CN-F11ALX	TL-112	TL-124**	Comp. "F"	CN-FSNSQS-6	TL-SNSA	TL-SNSST	
	Comp. "F"	CN-FSNS-11	TL-SNS11	TL-SNS11ST	Q821	Comp. "F"	CN-FSNS-11	TL-SNS11	TL-SNS11ST
825	75Ω 3Pc. BNC	CN-BM74-18	TL-105	TL-825	WP258195	75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-2	TL-104	TL-121
	Comp. BNC	CN-CSBNC-25	TL-SNSA	TL-CSST		Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST
	Comp. RCA	CN-CSRCA-25	TL-SNSA	TL-CSST		Comp. RCA	CN-CSRCA-59	TL-SNSA	TL-CSST
	Female BNC	CN-BF74-18	TL-105	TL-825	WP8253 WP8255 WP258255	75Ω 3Pc. BNC	CN-BM74-18	TL-105	TL-825
"F"	CN-F56ALM	TL-111	TL-120	Comp. BNC		CN-CSBNC-25	TL-SNSA	TL-CSST	
Comp. "F"	CN-FSNS-6	TL-SNSA	TL-SNSST	Comp. RCA		CN-CSRCA-25	TL-SNSA	TL-CSST	
A2815	1Pc. BNC	CN-BM51-2	--	TL-120	Female BNC	CN-BF74-18	TL-105	TL-825	
	2Pc. BNC	CN-BM52-2	TL-101	TL-120**	WP258263 WP258265	75Ω 3Pc. BNC	CN-BM74-19	TL-105	TL-825
	3Pc. BNC	CN-BM53-2	TL-104	TL-121		Comp. BNC	CN-CSBNC-26	TL-SNSA	TL-CSST
	75Ω 3Pc. BNC	CN-BM73-2 CN-BM74-32	TL-104	TL-121		Comp. RCA	CN-CSRCA-26	TL-SNSA	TL-CSST
	Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST	WP6355	75Ω 3Pc. BNC	CN-BM73-5	TL-107	TL-121
	Comp. RCA	CN-CSRCA-59	TL-SNSA	TL-CSST		Comp. BNC	CN-CSBNC-6	TL-SNSA	TL-CSST
1Pc. BNC	CN-BM51-5	--	TL-120	Comp. RCA		CN-CSRCA-6	TL-SNSA	TL-CSST	
AQC2806 AQC806	75Ω 3Pc. BNC	CN-BM73-5	TL-107	TL-121	WP8195	75Ω 3Pc. BNC	CN-BM74-32 CN-BM73-2	TL-104	TL-121
	Comp. BNC	CN-CSBNC-6	TL-SNSA	TL-CSST		Comp. BNC	CN-CSBNC-59	TL-SNSA	TL-CSST
	Comp. RCA	CN-CSRCA-6	TL-SNSA	TL-CSST		Comp. RCA	CN-CSRCA-59	TL-SNSA	TL-CSST
	AQC815 AQC819	1Pc. BNC	CN-BM51-2	--	TL-120	SPECIALTY CABLES: PAN TILT ZOOM CABLE: PTZ815 - SEE 815 CABLE PTZ25815- SEE 25815 CABLE PTZ825 - SEE 825 CABLE PTZ25825 - SEE 25825 CABLE			
2Pc. BNC		CN-BM52-2	TL-101	TL-120**					
3Pc. BNC		CN-BM53-2	TL-104	TL-121					
75Ω 3Pc. BNC		CN-BM74-32 CN-BM73-2	TL-104	TL-121					
Comp. BNC		CN-CSBNC-59	TL-SNSA	TL-CSST					
AQC841	"F"	CN-F56AQ	TL-111	TL-120	HOMENETWORKING COMPOSITE CABLES:				
	Comp. "F"	CN-FSNS-6	TL-SNSA	TL-SNSST	• HN5161 • HN5162 • HN5261 • HN5262 • HN5262F • LSHN6262 • LSHN5262 • LSHN6262F SEE HQ841 CABLE				

SPECIALTY CABLES:

PAN TILT ZOOM CABLE:

PTZ815 - SEE [815](#) CABLE
PTZ25815- SEE [25815](#) CABLE
PTZ825 - SEE [825](#) CABLE
PTZ25825 - SEE [25825](#) CABLE

HOMENETWORKING COMPOSITE CABLES:

• HN5161 • HN5162 • HN5261 • HN5262 • HN5262F
• LSHN6262 • LSHN5262 • LSHN6262F
SEE [HQ841](#) CABLE

MEDIA CONTROL CABLE: (ELAN)

E1854 - SEE [815](#) CABLE

Cable Finder: General Cables

2 Conductor (Solid)												
	12 Awg		14 Awg		16 Awg		18 Awg		20 Awg		22 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM											450 AQC290	
CMR											290	220
CMP											25290B	
FPL		974	D995	972	D991	D990 971	D975	D980 970				
FPLR	999	998	995	994	991	990	975	980				
FPLP	60994B	60995B	60992B	60993B	60990B	60991B	60975B	60980B				

2 Conductor (Stranded)																
	10 Awg		12 Awg		14 Awg		16 Awg		18 Awg		20 Awg		22 Awg		24 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	
CM							AQC225		AQC293 77293	AQC224	AQC292 77292		AQC291 AQC290 452 77291		DA2401 D2401 D4851	
CMR					295 CL2R		294	225	293	224	292	222	291 (X)454	221 S221		
CL2		HA210	77296	C207 HA227	77295	C206 HA226	77294	C205 HA225								
FPL			AQ296	AQ227	AQ295	AQ226	AQ294	AQ225	AQ293	AQ224						
CL2R			296	227		226										
CL2P		25210	25296B	25227B	25295B	25226B										
CMP							25294B D25294	25225B	25293B D25293	25224B	25292B D25292	25222B	25291B D25291 D25454	25221B	DA252401 D252401 D254841	
TC		C210														

3 Conductor (Solid)										
	16 Awg		18 Awg		20 Awg		22 Awg			
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.		
CM							451 AQC351	AQC351		
CMR							300 351	230 351		
CMP							25300B			

3 Conductor (Stranded)												
	12 Awg		14 Awg		16 Awg		18 Awg		20 Awg		22 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM									AQC358		AQC352	AQC352
CMR					304	235	303	234	302 358	232 358	301 352	231 352
CL3R		238	305	236								
CMP		25238B CL2P					25303B	25234B	25302B 25358B	25232B 25358B	25301B 25352B	25231B 25352B
CL2P				25236B								

Not all West Penn Wire Products are listed in the cable finder

Cable Finder: General Cables

4 Conductor (Solid)												
	14 Awg		16 Awg		18 Awg		20 Awg		22 Awg		24 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM									AQC355 D420 AQC420	AQC240 AQC355		
CMR									355 3251 420	240 355 251		
FPL		AQ246	AQC3245 D993	AQ245	AQC3244 D982	AQ244						
FPLR		700	993	992	982	977			1083			
FPLP		60700B	603164B	60164B	60977B	60982B						
CMP									25355B M54089	25355B	D252402	

4 Conductor (Stranded)														
	12 Awg		14 Awg		16 Awg		18 Awg		20 Awg		22 Awg		24 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM							D440		AQC359	AQC359	AQC357 AQC430 D430	AQC357	DA2402 D4852	
CMR					3245	245	3244 360 3751	244 360 751	3011 359	242 359	3241 357 D3651 3651	241 357 651		
CL2				HA246		HA245								
FPL				AQ246	AQ3245	AQ245	AQ3244	AQ244	AQ293	AQ224				
CL2R		248		246										
CMP						25245B	25440B 253244B	25244B 25751B	253244B 25359B	25242B 25359B	253241B 25357B 25510B D25430 D253651	25241B 25357B	DA252402 D254852	
CL2P		25248B		25246B										

5 Conductor (Stranded)								
	18 Awg		20 Awg		22Awg			
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.		
CMR	3280	280	3262	262	3855	855		
CMP					253855B	25855B		

6 Conductor (Solid)								
	18 Awg		22 Awg					
	Shld.	Unshld.	Shld.	Unshld.				
CM			AQC369 AQC373					
CMR			3252 421 369	369				

Cable Finder : *General Cables*

6 Conductor (Stranded)								
	18 Awg		20 Awg		22 Awg		24 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM	AQC3186 D441				D3652 D431		D2403 D4853	
CMR	3752	3021 752	752		3270 3652	270 652		
CMP	253186B	25186B 25752B			253270B 25441B D253652 D25431	25270B	D252403	

7 Conductor (Stranded)								
	16 Awg		18 Awg		20 Awg			
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.		
CMR		663	3281	281	3263	263		

8 Conductor (Solid)								
	18 Awg		22 Awg		23 Awg		24 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM			AQC429					M58762
CMR			3253 429			4246		4245
CMP						254246		254245

8 Conductor (Stranded)								
	18 Awg		20 Awg		22 Awg		24 Awg	
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM	AQC188 D442				AQC439 D3653 D439		DA2404S D2404 D4854	
CMR	3753	753			3271 3653	271 653		4245
CMP	253188B	25188B 25753B			253271B D253653 D25439	25271B	D252404	

9 Conductor (Stranded)								
	18 Awg		20 Awg					
	Shld.	Unshld.	Shld.	Unshld.				
CMR	3282	282	3264	264				

10 Conductor (Solid and Stranded)								
	18 Awg		22 Awg					
	Shld.	Unshld.	Shld.	Unshld.				
CMR			3272 Strd.	272 Strd.				
CMP				25272B Strd.				

Cable Finder: General Cables

12 Conductor (Solid)							
22 Awg							
	Shld.	Unshld.					
CM	AQC422						
CMR	422						

12 Conductor (Stranded)								
18 Awg		20 Awg		22 Awg		24 Awg		
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM	AQC3283				AQC432 WP4546 D432		DA2406	
CMR	3283	754 283	3265	265	3654 3273	654 273		
CMP					D25432	25273B	DA252406	

15 Conductor (Solid and Stranded)							
18 Awg		20 Awg		22 Awg			
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	
CM					AQC3274 D432		
CMR		284			3274	274	
CMP					253274B	25274B	

16 Conductor (Stranded)							
22Awg		24 Awg					
	Shld.	Unshld.	Shld.	Unshld.			
CM	WP4548		DA2408S				

18 Conductor							
18 Awg		22 Awg					
	Shld.	Unshld.	Shld.	Unshld.			
CMR Strd.		755		655			
CMR Solid			423				

20 Conductor							
18 Awg		20 Awg		22 Awg			
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	
CMR Strd.		285			3275		

Cable Finder : General Cables

24 Conductor							
22 Awg							
	Shld.	Unshld.					
CM Strd.	D434 AQC434 WP45412 DA2412S						
CMR Strd.	3656	656					
CM Solid	AQC424						
CMR Solid	424						

30 Conductor							
18 Awg		22 Awg					
	Shld.	Unshld.	Shld.	Unshld.			
CMR Solid			425				

32 Conductor				38 Conductor			
22 Awg		22 Awg		22 Awg			
	Shld.	Unshld.	CM Shld.		Shld.	Unshld.	
CMR Strd.		657	WP45416				

46 Conductor		48 Conductor		54 Conductor		64 Conductor		
22 Awg		22 Awg		22 Awg		22 Awg		
	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.	Shld.	Unshld.
CM Strd.			WP45424 CM		D438		WP45432 CM	

Cable Finder- Coaxial Cables

RG59/U CATV Coaxial Cables			RG59/U CCTV Coaxial Cables		RG59/U Pro-Video Coaxial Cables		MiniMax Cables	
CATV	CATVP	CATV Outdoor	CM CMR	CMP	CM CMR	CMP	CM CMR	CMP
	25843 25Q843 <i>Quad</i>		815 815R 2815B A2815 AQC815	25815 252815	819 AQC819	25819	825 HD825 45825 2825 SVHS	25825 HD25825 252825

RG6/U CATV Coaxial Cables			RG6/U CCTV Coaxial Cables		RG6/U Pro-Video Coaxial Cables	
CATV	CATVP	CATV Outdoor	CM CMR	CMP	CM CMR	CMP
841 6100 AQC841 6150 Dual 6285 Dual	25841	6140	806 806R 2806B AQC2806 AQC806	25806	6350	256350
HQ841 Q841 6300 6500 <i>Quad</i>	25Q841 <i>Quad</i>	6310 <i>Quad</i>	4806 6325 <i>Outdoor</i>			

RG11/U CATV Coaxial Cables			RG11/U CCTV Coaxial Cables		RG11/U Pro-Video Coaxial Cables	
CATV	CATVP	CATV Outdoor	CM CMR	CMP	CM CMR	CMP
821 1100 Q821	25821 25Q821 <i>Quad</i>	1110 1125	811 4811 1130 <i>Outdoor</i>	25811	1135	

RGBHV Minimax & Miniature			RG59/U RGBHV		RG6/U RGBHV	
3 Coax	4 Coax	5 Coax	4 Coax	5 Coax	3 & 4 Coax	5 Coax
WP8253 <i>CM</i> 253CRGB WP258263 <i>CMP</i>		WP8255 5CRGB WP258255 WP258265 255CRGB <i>CMP</i>		WP8195 WP258195 <i>CMP</i>		WP6355

Special RGB Cables:
6CRGB2P, 6CRGB4P
256CRGB2P

Specialty Cables

HomeNetworking:

HN5261 - HN5262 - HN5262F -
LSHN5262 - LSHN6262 - LSHN6262F

Media Control Cables:

77350 - D25350 - E1854 - HA1624

Access Control Cables:

AC1822 - LS1822 - LS251822

Video over UTP:

CC2418 - CC2416 - CC252418 - CC252416

PTZ Composite Cables:

PTZ825 - PTZ815 - PTZ25825 - PTZ25815

Composite A/V Cables:

LS25AV, LSAV

FLat Parallel Cables:

WP37123 - WP37127 - WP37125 - WP37129

Low Skew UTP Cables:

M58813, M58814

50 Ohm Coaxial Cables		
	PVC	Plenum
RG8/U	810	25810
RG58/U	812 813	25812

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1110	66	251991	56	253188B	34	264	6
1130	74	251994	56	253241B	33	265	6
1135	80	251995	56	253244B	34	270	5
1150	87	252CSVHS	88	253270B	33	271	5
1165	87	25210	26	253271B	33	272	5
1975	55	25221B	28	253272B	33	273	5
1990	54	25222B	28	253274B	33	274	5
1991	55	25224B	28	25352B	35	275	5
1994	54	25225B	28	25355B	35	276	5
1995	55	25226B	28	25357B	35	277	5
1997	55	25227B	28	25358B	35	280	7
1999	55	25231B	29	25359B	35	2806B	72
210454	101	25232B	30	25372B	35	281	7
220	2	25234B	30	253811	87	2815B	70
221	2	25236B	31	253815	86	282	7
222	2	25238B	31	253855B	33	2825	88
224	2	25241B	29	254245	114	283	7
225	2	25242B	30	254246	115	284	7
226	2	25244B	30	25440B	36	285	7
227	2	25245B	30	25441B	36	290	11
230	3	25246B	31	255CRGB	83	291	11
231	3	25248B	31	25510B	36	292	11
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234	3	25271B	29	256350	80	294	11
235	3	25272B	29	25751B	31	295	11
236	3	25273B	29	25752B	31	296	11
238	3	25274B	29	25753B	31	300	12
240	4	252815	71	25806	73	301	12
241	4	252825	88	25810	78	3011	9
242	4	25290B	32	25811	74	302	12
242	4	25291B	32	25812	78	3021	10
2452	101	25292B	32	25815	71	303	12
245	4	25293B	32	25819	80	304	12
246	4	25294B	32	25821	67	305	12
248	4	25295B	32	25825	68	3241	8
251	15	25296B	32	25841	65	3244	10
252	15	253CRGB	83	25843	65	3245	10
253	15	25300B	33	25855B	29	3251	18
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3270	8	4246	115	5992	86	77295	96
3271	8	425	21	5994	86	77296	96
3272	8	429	21	6CRGB2P	82	77350	137
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3274	8	451	13	60164B	52	806	72
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3283	10	4811	74	60980B	52	811	74
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358	14	5022FM	59	60994B	53	819	80
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360	14	5100FM	59	6100	62	825	68
369	14	5100FZ	57	6140	63	841	62
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3654	19	5120UM	60	6325	73	971	51
3655	19	5120UZ	58	6350	80	972	51
3656	19	5122FM	59	6500	63	974	51
369	14	5122UM	60	651	16	975	49
373	24	5200FM	59	652	16	977	49
374	24	5200FZ	57	653	16	980	48
3751	20	5200UZ	58	654	16	982	48
3752	20	5220FM	59	655	16	990	48
3753	20	5220FZ	57	656	16	990S	48
3754	20	5220UM	60	657	16	991	49
3811	87	5220UZ	58	663	7	992	48
3815	86	5222FM	59	700	48	993	49
3855	8	5222FZ	57	751	17	994	48
420	21	5222UM	60	752	17	994S	48
421	21	5300FM	59	753	17	995	49
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AQ227	43	C206	25	D438	22/98	LS25AV	144
AQ244	43	C207	25	D439	22/98	LS1822	144
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AQ293	44	C2425	138	D442	23	LSHN5162	136
AQ294	44	CC2418	75-141	D4851	109	LSHN5262	136
AQ295	44	CC2416	75-141	D4852	109	LSHN6262	136
AQ296	44	CC252418	75-141	D4853	109	LSHN6262F	136
AQ3244	44	CC252416	75-141	D4854	109	M55211	117
AQ3245	44	D2401	106	D60975	51	M55212	117
AQC188	40	D2402	106	D60990	51	M55216	117
AQC224	40	D2403	106	D975	50	M55700	117
AQC225	40	D2404	106	D980	50	M56081	117
AQC240	40	D252401	108	D982	50	M56126	117
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AQC290	39	D252404	108	D991	50	M56128	117
AQC291	39	D25291	97	D995	50	M57561	116
AQC292	39	D25292	97	DA2401	102	M57622	116
AQC293	39	D25293	97	DA2402	102	M58141	116
AQC3186	39	D25294	97	DA2404S	103	M58142	118
AQC3274	39	D25350	137	DA2406	102	M58762	116
AQC3283	39	D253651	108	DA2408S	103	M58813	89
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AQC352	38	D253653	108	DA252401	102	M9A001	120
AQC355	38	D25420	107	DA252402	102	M9A002	120
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AQC358	38	D25431	99	E1854	138	M9A004	121
AQC359	38	D25432	99	HA1624	135	M9B001	120
AQC369	38	D25439	99	HA210	26	M9B002	120
AQC373	38	D25454	104	HA225	134	M9B003	121
AQC420	41	D254851	110	HA226	134	M9B004	121
AQC422	41	D254852	110	HA227	134	M93001	120
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AQC429	41	D3651	106	HA246	135	M9X005	124
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M9X037	122	M9X604T	127	TC2994	45
M9X038	122	M9X606	122	TC2995	46
M9X039	122	M9X606T	127	TC2998	45
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M9X046	123	M9X812	130	WP37129	140
M9X048	123	M9X813	130	WP45412	100
M9X048T	127	M9X814	130	WP45416	100
M9X082	125	M9X815	130	WP45424	100
M9X083	124	M9X816	130	WP45432	100
M9X150	126	M9X817	130	WP4546	100
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103	-	442	D442	3256	3656	25352	25352B	D252403	-
104	-	444	-	3257	-	25355	25355B	D252406	-
105	-	460	291	3258	-	25357	25357B	D2524125	-
110	-	510	77510	3259	-	25358	25358B	D25303	-
115	-	511	-	3260	-	25359	25359B	D253654	D25432
117	-	533	-	3266	-	25372	25372B	D291	77291
118	-	534	-	3267	-	25373	-	D292	77292
119	-	535	-	3277	-	25374	-	D293	77293
120	-	555	855	3284	-	25440	25440B	D294	77294
151	751	570	270	3285	-	25441	25441B	D301	-
152	752	571	271	3657	-	25510	25510B	D303	-
153	753	572	272	3755	-	25814	25815	D3654	-
154	754	573	273	5900	6100	25855	25855B	D510	77510
223	-	574	274	5915	6140	25950	-	D976	-
228	-	575	275	6170	-	60975	60975B	D977	-
233	234	576	276	6190	-	60977	60977B	D989	-
237	234	577	277	6285	-	60980	60980B	D993	-
243	244	801	-	6373	6350	60982	60982B	D999	-
249	244	804	-	6961	-	60990	60990B	HA248	248
254	654	814	815	6962	-	60991	60991B	HA294	294
255	655	816	815	7100	1100	60992	60992B	HA3245	3245
256	656	818	-	7120	1110	60993	60993B	HA3246	3246
257	657	842	841	7200	811	60994	60994B	HN5162	LSHN5162
258	-	843	841	7210	1135	60995	60995B	HN5262C	-
259	-	950	-	7325	1130	60996	-	M54089	-
260	-	951	-	25221	25221B	60997	-	TC1601	TC2991
266	284	961	-	25222	25222B	60998	-	TC1602	-
267	285	976	977	25224	25224B	251976	-	TC1603	-
286	-	984	-	25225	25225B	251977	-	TC1604	-
287	-	986	-	25226	25226B	251989	-	TC1606	-
288	-	988	-	25227	25227B	251993	-	TC1801	TC2975
289	292	1084	-	25231	25231B	251997	-	TC1802	-
306	302	1086	-	25232	25232B	253241	253241B	TC1802S	-
370	-	1125	-	25234	25234B	253244	253244B	TC1803	-
371	-	1977	-	25235	25235B	253270	253270B	TC1803S	-
372	-	1980	-	25238	25238B	253271	253271B	TC1804	-
385	-	1982	-	25241	25241B	253272	253272B	TC1804S	-
386	-	1984	-	25242	25242B	253274	253274B	TC1806	-
387	-	1986	-	25244	25244B	253280	253186B	TC1806S	-
388	-	1988	-	25245	25245B	253281	253188B	WP258194	WP258195
389	-	1992	-	25270	25270B	253855	253855B	WP258254	255CRGB
392	-	1993	-	25271	25271B	257210	-	WP6354	WP6355
430	D430	1998	-	25272	25272B	506970	-	WP8254	5CRGB
431	D431	2010	-	25274	25274B	506971	-	WP82561	6CRGB2P
432	D432	2015	-	25280	25186B	506972	-	WP82564	-
433	D433	2017	-	25281	25188B	506974	-		
434	D434	2018	-	25290	25290B	225D	225		
435	425	2816	2815B	25291	25291B	226D	226		
436	D436	3010	3241	25292	25292B	227D	227		
438	D438	3151	3751	25293	25293B	235D	235		
439	D439	3152	3752	25294	25294B	25Q841S	-		
440	D440	3153	3753	25300	25300B	25T843	25Q843		
441	D441	3154	3754	25301	25301B	292D	292		
		3254	3654	25302	25302B	841S	-		
		3255	3655	25303	25303B	D2406	-		



Replacement Cable are deemed to be the closest construction West Penn Wire offers. For more details on Replacement Cables Call our Engineering Department: 800-245-4964

